

Outdoor power supply for the earthquake in Alexandria Egypt

Was Alexandria affected by a major earthquake or tsunami?

The city of Alexandria was not affected by a major earthquake or tsunami in recent years. Highly destructive tsunamis were recorded at a number of locations in the Mediterranean but only few events are known that had affected Alexandria on the north coast of Egypt.

How did the quake affect Egypt & Sicily?

The tsunami that developed because of the quake destroyed the complete coastal regions as far as Egypt and eastern Sicily. In 1303 another earthquake destroying Rhodes caused a tsunami which reached the Egyptian coast.

What are the structural mitigation measures for the city of Alexandria?

The structural mitigation measures for the city of Alexandria should particularly focus on the buildings located in the very high and high risk levels. The city of Alexandria is highly populated, therefore the development of an effective emergency evacuation plan, if not already existing, is highly recommended.

Are there any digital wave-form earthquakes in Greater Cairo area?

For this purpose, the digital wave-form of earthquakes than $ML=3$ that occurred in and around Greater Cairo Area from 1997 to 2008 which have been recorded by the Egyptian National Seismological Network, are used to study source characterization, focal mechanism and fault pattern of the seismogenic zones around Greater Cairo Area.

Why is Alexandria a dangerous place?

Nevertheless, various earthquake events are documented for the Egyptian coast making Alexandria a hazardous place as two fault lines, the Suez-Cairo-Alexandria Line and Qattara-Eratosthenes Line, converge in the area (see Figure 1). Two strong tsunamigenic earthquakes that devastated the city of Alexandria are well known from historical records.

How many people were killed in the Alexandria earthquake?

Two strong tsunamigenic earthquakes that devastated the city of Alexandria are well known from historical records. Approximately 5,000 people lost their lives and 50,000 homes were destroyed after a powerful earthquake off the coast of Greece in 365.

1992 is an example of a small but damaging earthquake in Egypt. Protection of strategic structures like nuclear power plants, dams and big populated cities, in Egypt, from all ...

The primary sources for the history of Egypt and certainly for its earthquakes are the Arabic chronicles. Egypt has been home to some of the earliest civilizations. In a unique situation, Egypt at the crossroad of three

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major continents (Africa, Asia, and Europe) dynastic power based on the Nile Valley go back to the first dynasty.

The most hazardous tsunami events for Northern coast of Egypt were related to the earthquakes of 365 in Crete with M_w 8.5, 1222 in Cyprus with M_w 7-7.5, and 1303 in Rhodes Island with M_w 8.0. The 365 and 1303 earthquakes were accompanied by tsunamis that resulted in widespread destruction and subsequent fatalities along the coast of ...

The A.D. 365 tsunami propagation model after Shaw et al. (2008), modified. (a,b) Snapshots of the generated waves, 30 and 70 min after the tsunami initiation.

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For thousands of years, cultural hub Alexandria in Egypt has been at a geographical crossroads, putting it at risk from earthquakes and extreme weather events. Now, with massive real estate ventures underway, researchers say the government should look to the city's past in preparation for the future. Rehab Abdalmohsen reports for Unbias the News" ...

Alexandria, as a second major city of Egypt, becomes nowadays a site for new developmental projects. Therefore, the seismic hazard analysis would be essential to mitigate the earthquake disaster ...

The event of 1992 October 12 is an example of a small but damaging earthquake in Egypt. This event, of magnitude $m_b = 5.4$, resulted in 554 people being killed, about 20 000 people being injured and over one billion US\$ reported as property losses. This was not the only destructive earthquake in Egypt: similar events occurred in 778, 1303 and 1847.

In the present study a numerical modeling technique is applied to estimate quantitative seismic hazard in Alexandria. In terms of seismic hazard, both local and remote earthquakes have a...

The Egyptian government has introduced a new load-shedding program this week, which involves power cuts at specific times throughout the day.

because of their destructive power. The city of Alexandria was not affected by a major earthquake or tsunami in recent years. Highly destructive tsunamis were recorded at a number of locations in the Mediterranean but only few events are known that had affected Alexandria on the north coast of Egypt. Nevertheless, various earthquake events are

Solaire Egypt was officially established in 2020 after the partners, Ibrahim Hassaballa, Mohamed Ali and Amr Haridi met and realized they form a team with the perfect balance of expertise for renewable energy. ... Our

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vision is to harness natural energy to power Egypt and the MENA region at the lowest possible prices. "A transition to clean ...

The lighthouse of Alexandria, built by the Ptolemaic Kingdom in ancient Egypt, was once one of the tallest structures in the world and was a symbol of social, commercial and intellectual power. Now recognised as one of the seven wonders of the ancient world, the towering lighthouse made of stone was constructed in the 3rd century BC and, for a time, was both an ...

Based on the grid element vulnerability model, the framework uses Monte Carlo to simulate the network element failure induced by earthquake damage. The power flow model with functional ...

9. The 2008 Qena Earthquake. Qena governorate in Upper Egypt was the epicenter of this earthquake which was located about 60 kilometers (37 miles) southeast of Luxor. The 2008 Qena earthquake was a moderate earthquake with a magnitude of 5.1 on the Richter scale. Ancient temples and tombs in Luxor including several buildings were damaged in the ...

Alexandria is the second biggest city in Egypt with regards to population, is a key economic area in northern Africa and has very important tourist activity.

In Figure 8 (B), the historical epicentres in Egypt are shown, and most of these earthquake epicentres affected many buildings structurally in Alexandria with magnitudes from 4.5 to 6.5, since ...

Therefore, this study estimates the earthquake ground shaking and the consequent impacts in Alexandria on the basis of two earthquake scenarios. The simulation results show ...

historic tsunamis in Alexandria occurred in the years 365 and 1303 AD, with reported wave heights of 1 m and 2.9 m, respectively. Approximately 5000 people lost their lives and 50,000 homes were destroyed in the city after the earthquake in 365. The 1303 tsunami destroyed the great lighthouse of Alexandria, one of the seven wonders of the ...

We estimate the vulnerability of buildings and population exposure to tsunamis for the city of Alexandria, Egypt. The study is based on the worst-case tsunami scenario technique and focusses only on tsunamis induced by earthquakes. The results show that a 15km² area can be inundated to the south-west of the port of Dekhila.

To do so, the work has been divided into five steps: a) identification of tsunamigenic earthquakes in the eastern Mediterranean region which could cause significant impacts along ...

Egypt is affected by earthquakes along the major tectonic structures of the plate margin as well as by those originating within the country itself (Fig. 3). Probabilistic Seismic Hazard Approach (PSHA) is performed,

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through different steps starting with, compiling a complete and homogenous earthquake catalog, delineation of a seismotectonic model that, this model is ...

On 3 September 2015, an unexpected earthquake with magnitude $M_B = 4.5$ occurred in a completely silent area, located at 40 km south El Alamein city north western desert, where there are ~ 20 ...

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