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渤海海域历史上发生过地震诱发海啸吗?

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Did earthquake tsunami occur in Bohai Sea in history?

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摘要

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摘要 历史文献中有许多关于渤海“海溢”的记录,但“海溢”是否就是现代意义上的海啸还存在疑问,而且渤海海域基本不存在发生重大海啸的海沟型地震构造背景,因此,渤海地区是否发生过海啸的争论从未停止.本文在分析历史地震和古籍资料的基础上,通过数值模拟分析历史地震引发海啸的可能性,结合对渤海沿岸海啸堆积物的地质调查,认为渤海海域历史上基本没有发生过破坏性海啸事件,即使存在过海啸,到岸浪高也不会高于0.5 m,而且仅限于东营—潍坊一带.

关键词 渤海, 海啸, 数值模拟

Abstract: There are many records about "sea-overflow" in Chinese ancient books, which could not be proved as tsunamis. Considering the tectonic setting and geologic structures of Bohai sea and the records in ancient books, it has been controversial whether or not tsunami occurred in Bohai sea. In this paper, based on the analysis of historical earthquakes and ancient books, by means of numerical simulation and field investigation, we deem that no devastating tsunami occurred in Bohai sea. If there were tsunamis in Bohai sea, the height of waves was lower than 0.5m, and only influenced the Dongying-Weifang area.

Keywords Bohai sea, Tsunami, Numerical simulation

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