**Module 1 - Case**

**DISASTERS/HAZARD AND VULNERABILITY ANALYSIS**

**Case Assignment Overview**

**Disasters: Tsunamis**

**2004 Indian Ocean Tsunami**

One of the deadliest tsunamis in recorded history occurred in the Indian Ocean in 2004.

The 26 December 2004 tsunami was the most deadly tsunami and one of the greatest disasters in historical times. Some 280,000 people were killed in South Asia and East Africa. Sumatra Indonesian island was the most affected area with about 178,000 dead. It sparked unparalleled media-related impact and humanitarian aid.\*

**2011 Japan Tsunami**

In order to understand the magnitude of the Japan tsunami, view the brief video clip containing dramatic footage of the waves in action. Caught on Tape: Tsunami hits Japan port town. Retrieved from [*https://archive.org/details/youtube-SCn6H3JKY4M*](https://archive.org/details/youtube-SCn6H3JKY4M) CBSNEWS

Less than an hour after the earthquake, the first of many tsunami waves hit Japan's coastline. The tsunami waves reached run-up heights (how far the wave surges inland above sea level) of up to 128 feet (39 meters) at Miyako city and traveled inland as far as 6 miles (10 km) in Sendai. The tsunami flooded an estimated area of approximately 217 square miles (561 square kilometers) in Japan.\*\*

**Case Assignment**

Based on information obtained from readings in the Background section, compare and contrast the impact between the tsunami in the Indian Ocean (2004) with the tsunami in Japan (2011). In your paper, make mention of:

* Cause of tsunami
* Amount of damage
* Amount of land mass involved
* Mortality rates
* Mitigation measures before incident
* Mitigation measures after incident
* Lessons learned

Sources:

\*Kelman, I., Spence, R., Palmer, J., Petal, M., & Saito, K. (2008). Tourists and disasters: lessons from the 26 December 2004 tsunamis. *Journal of Coastal Conservation, 12*(3), 105–113

\*\*Oskin, B. (2017). Japan earthquake & tsunami of 2011: Facts and information, Livescience.

**Assignment Expectations**

**Length:** This Case Assignment should be 4–6 pages, not counting the title page and references.

**References:** At least two references should be included from academic sources (e.g., peer-reviewed journal articles). Required readings are included. Quoted material should not exceed 10% of the total paper (since the focus of these assignments is critical thinking). Use your own words and build on the ideas of others. When material is copied verbatim from external sources, it MUST be enclosed in quotes. The references should be cited within the text and listed at the end of the assignment in the References section (preferably in APA format).

**Organization:** Subheadings should be used to organize your paper according to question.

**Grammar and Spelling:** While no points are deducted for minor errors, assignments are expected to adhere to standard guidelines of grammar, spelling, punctuation, and sentence syntax. Points may be deducted if grammar and spelling impact clarity.