

Natural Disasters

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Natural Disaster

- A force of nature having a significant, negative impact on human activity



List of Disasters (5 Sources)

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1. Tectonic – internal processes



5 Sources of Disasters

1. Tectonic

2. Lithospheric – surface processes



5 Sources of Disasters

1. Tectonic

2. Lithospheric

3. Atmospheric – severe weather



5 Sources of Disasters

1. Tectonic

2. Lithospheric

3. Atmospheric

4. Extra-terrestrial – beyond earth



5 Sources of Disasters



5. Anthropogenic – human activity

Disasters Caused by Internal Processes

3 Tectonic Forces

3 Tectonic Forces



1. Volcano

(ash or lava eruptions)



3 Tectonic Forces

1. Volcano

2. Earthquake

(destruction of infrastructure)



3 Tectonic Forces

1. Volcano

2. Earthquake

3. Tsunami (coastal destruction)



Disasters Caused by Surface Processes

3 Lithospheric Forces

1. *Mass wasting*

(mudslide, landslide, avalanche)



3 Lithospheric Forces

1. Mass wasting

2. Flood

(river, bay, ocean)



3 Lithospheric Forces

1. Mass wasting

2. Flood

3. Sink hole (collapse of cave roof)

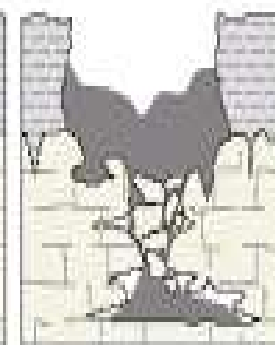
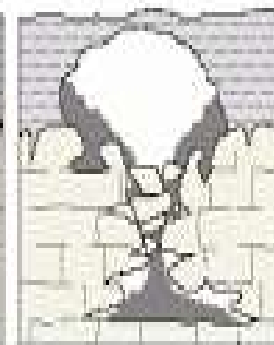
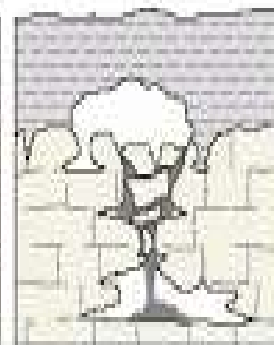
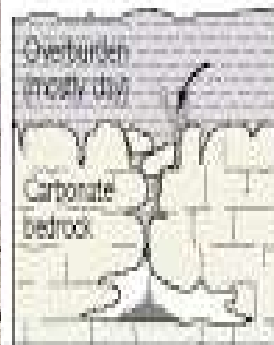


Sediments spill into a cavity.

As spalling continues, the cohesive covering sediments form a structural arch.

The cavity migrates upward by progressive roof collapse.

The cavity eventually breaches the ground surface, creating sudden and dramatic sinkholes.



Disasters Caused by Severe Weather

3 Atmospheric Forces

1. *Extreme temperature* *(blizzard to drought)*



3 Atmospheric Forces

1. Extreme temperature

2. Hurricane

(coastal flooding & strong winds)



3 Atmospheric Forces

1. Extreme temperature

2. Hurricane

3. Tornado (localized destruction)



Disasters Caused by Extraterrestrial Sources

3 Extra-Terrestrial Forces

1. Asteroid

(major impact causes destruction)

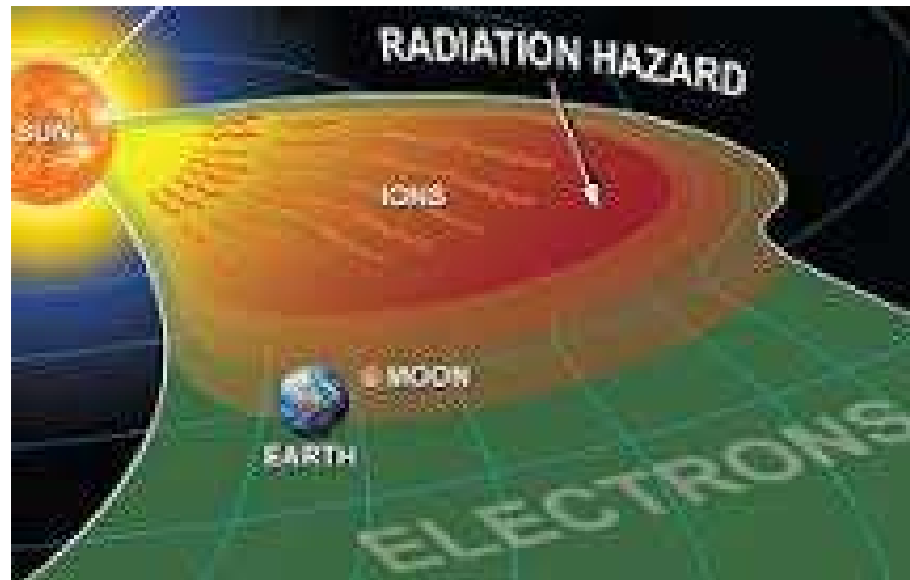


3 Extra-Terrestrial Forces

1. Asteroid

2. Radiation

(protection from atmosphere)



3 Extra-Terrestrial Forces

1. Asteroid

2. Radiation

3. ET (possible microbial life?)



Human Activity's Influence on Natural Disasters

3 Anthropomorphic Forces

1. Pollution

(contamination of resources)



3 Anthropomorphic Forces

1. Pollution

2. Population

(can cause resource depletion)



3 Anthropomorphic Forces

1. Pollution

2. Population

3. Preservation

(extinction of species)



Natural Disasters Map



EARTHQUAKES - MODERATE



EARTHQUAKES - HIGH



FLOODS



HURRICANES



TORNADOS

