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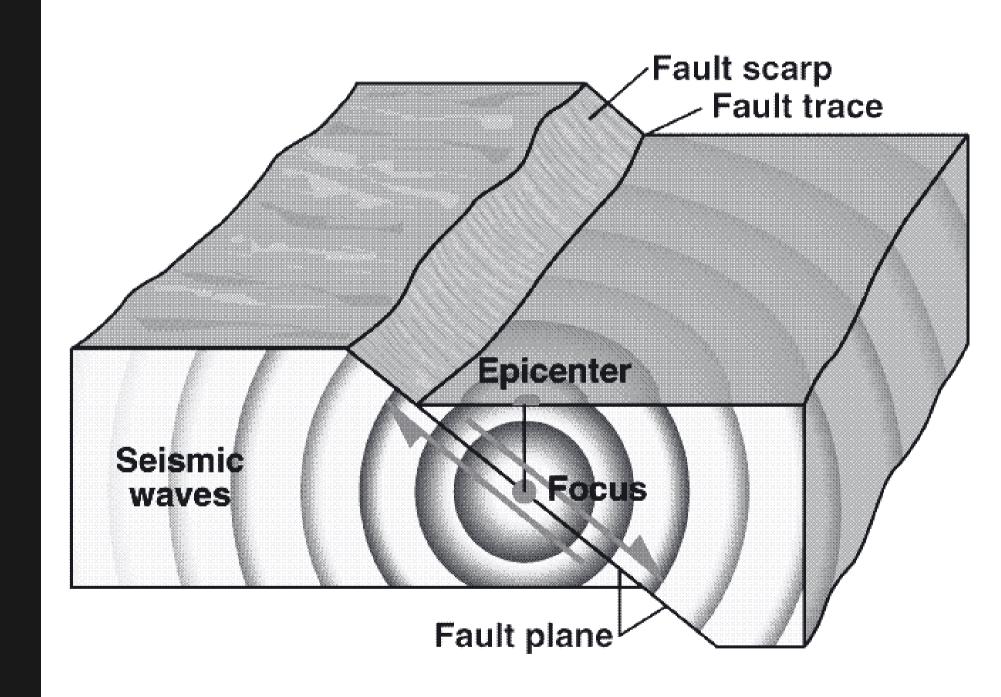


Overview

What is an earthquake?

A natural phenomenon characterized by the sudden release of energy in the Earth's crust, resulting in the generation of seismic waves.

- Magnitude
- Intensity







Overview

What happened in Kashmir?

- October 8, 2005, at 8:50:39 AM localtime
- In Pakistan
- Magnitude of 7.6
- At least 32,335 buildings collapsed in various cities
- 4 million area residents homeless
- Deadliest earthquake in South Asia
- Pakistani-administration official death toll: 79,000
 Other sources: 86,000
- More than 978 aftershocks with a magnitude of 4.0

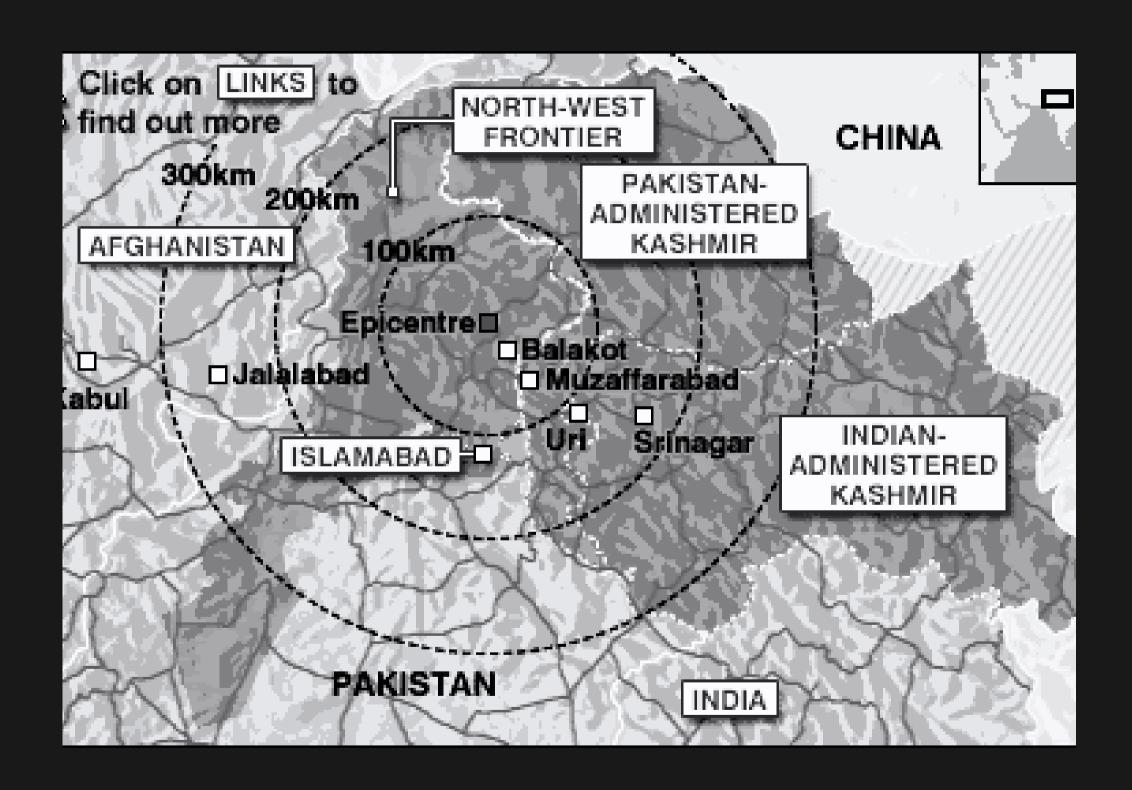


Destroyed building in Muzaffarabad after the earthquake, 2005.

Affected Regions

Which regions did it effect?

- Pakistan (Kashmir and NWFP regions)
- Northern India
- Northern Afghanistan
- Tajikistan



Precautions

Was Pakistan prepared for the earthquake?

Building Codes:

Although Pakistan and India had set certain rules for construction, these rules could not be effectively implemented.

Emergency Preparedness Plans:

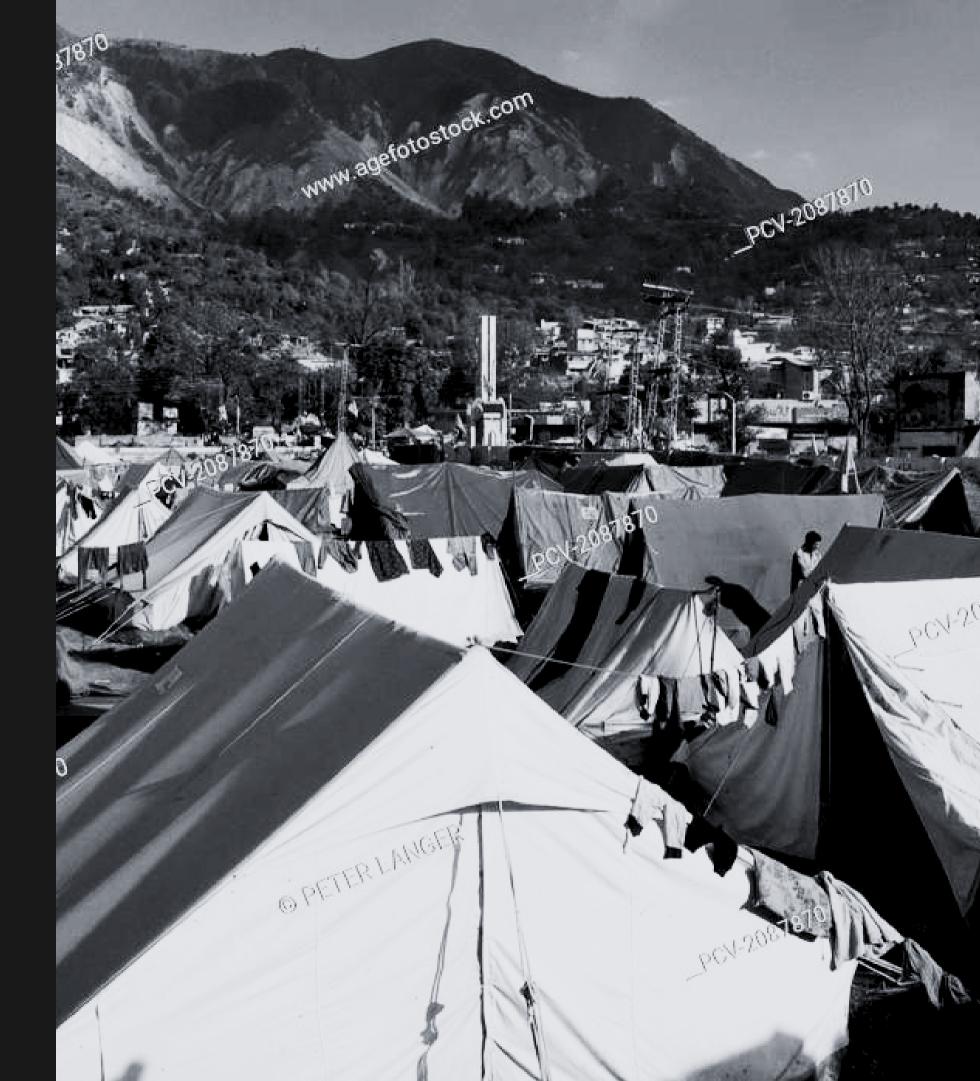
Some efforts had been made to respond to earthquakes and other natural disasters.

Infrastructure Resilience:

Initiatives to improve the resilience of critical infrastructure such as hospitals, schools, and government buildings.

Disaster Specific Actions

- Medical support (Medicine, Field Hospital)
- Monetary aid
- Temporary shelter & reconstruction
- Psychological support



Self-Response

Search and Rescue Efforts:

- Locals contributed spontaneously and immediately
- Pakistan Armed Forces and provincial administration joined the search and rescue operations

Medical Aid & Help:

- Pakistan Armed Forces and provincial administration helped with the management of medical aid
- The Pakistan Red Crescent provided health care services, more than 416,916 people were reached

Shelter & Housing:

- The Pakistan Red Crescent supplied shelter items such as tarpaulins, blankets and cooking stoves
- 611,000 houses were repaired and reconstructed by Pakistan government

Psycho-Social Support (PSS) Activities:

 70 government health staff, 100 government teachers and 652 volunteers were trained

Self-Response





Global Help

- Foreign countries such as U.S. pledged money (total of \$510 million) for earthquake relief and reconstruction efforts and sent 1000 rescue personnel.
- International Organizations such as NATO provided:
 - a. Urgently needed supplies such as thousands of tents, stoves, blankets
 - b. Engineers, medical units such as a 60-bed field hospital, 200 medical personnel
 - c. Specialist equipment (i.e. for heavy construction)
- Foreign NGOs such as Turkish Red Crescent contributed the aid efforts by:
 - a. Sending 55,794 tons of aid materials, a total of 34 shipments
 - b. Assigning 250 personnel
 - c.Providing PSS to 32,000 people who live in villages in Batagram and Manshera districts and reaching 27,000 people in camps during the emergency phase

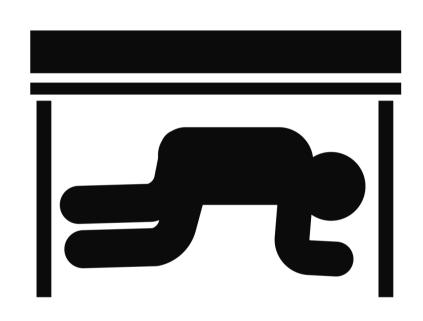
Global Help



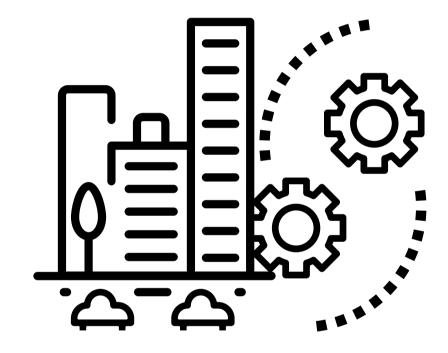


What was Right/Wrong?

What was right?



Earthquake Awareness and Education



Infrastructure
Improvements and
Construction Standards



International Response



Infrastructure Weakness

What was Right/Wrong?

— What was wrong?







Slow and Inadequate Response

Non-compliance with Building Regulations and Construction Standards

Geopolitical Tensions



Lessons Learned

- What did Pakistan learn from this earthquake?
- Effective risk assessment and hazard mapping, cohesive disaster risk management policies, coordination and oversight mechanisms
- Multi Hazard Vulnerability Risk Assessment Policy
- National Disaster Management
 Implementation Road Map
- Need for the regulation of construction activity and improvement in the quality of construction

Lessons Learned

What did Pakistan learn from this earthquake?

Prominent research topics and implementations of this research after the earthquake:

- Establishment of disaster mitigation organizations and interest of public sector to develop guidelines for seismically safe construction
- Revision of seismic zoning of country and setting seismic provisions in building codes
- Training the worker for seismically safe construction
- Public awareness for safe construction
- Seismic safety of adobe houses and non engineered dwellings
- Seismic safety of engineered-buildings

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