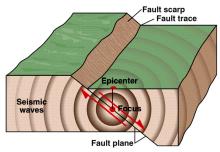
GRAPHY 8.3.

2. Earth Structure INNER CORE solid iron and nickel OUTER CORE liquid iron and nickel MANTLE magnesium-iron silicate

5. Earthquake Concepts

Earthquakes are a violent release of strain energy within the crust of Earth. The constantly churning convection currents in the mantle are responsible for slowly moving the crust around. However, the tectonic plates making up the crust are often being forced together or past each other and get stuck—building up huge amounts of energy; eventually it has to be released!



These natural events just happen in nature:

Avalanche

Natural Events

wildfire

Volcanic eruption tsunami Blizzard drought tornado earthquake Tropical storm

mudslide

flood

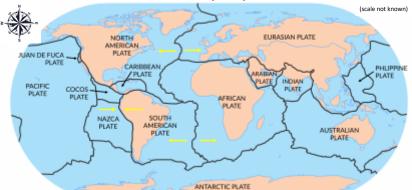
The actions and locations of people put them at risk. For example, living on floodplains, living near tectonic boundaries, living in poverty and changing the climate all contribute to increased

The Human Factor

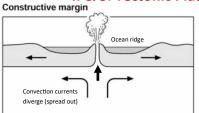
1. Natural Hazards

6. Haiti	13km deep focus	Maximum estimates say around 316, 000 were killed	Illnesses in refugee camps	Half of the country's schools affected	
2010	Magnitude 7.0 on Richter scale	Already was the poorest country in western hemisphere.	A local tsunami added to the hazards of the quake	Thousands of orphaned children	
earthquake	300,000 people injured	Epicentre very close to the capital city Port-au-Prince	1 million made homeless	20% of people lost their jobs as a result	
example	3 million affected	7 years later in 2017, there are still 2.5M in need of aid	\$3.1Bn raised in international aid afterwards	300,000 buildings destroyed	

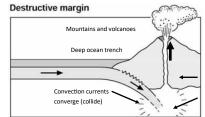
3. Tectonic Plate Boundary map



4. & 5. Tectonic Plate Boundaries

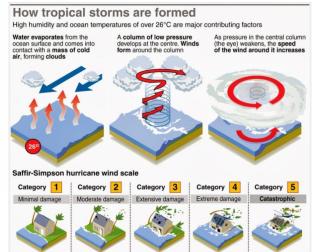


Convection currents under the crust in the mantle are slowly dragging the crust apart. To fill the gap, magma bursts up onto the seafloor (or out of volcanoes sometimes above sea level at these margins) and cools as lava forming new crust. This effectively means the seafloor is spreading and the continents on either side are moving apart. Volcanoes and earthquakes are gentle in these locations.



Convection currents here are converging (colliding). The denser oceanic crust sinks and grinds past the thicker, less dense continental crust. The friction destroys and melts the oceanic crust turning it into magma. The buckled and cracked continental crust allows the magma to violently break through out of volcanoes. Huge pressures released along these boundaries when the plates move cause massive earthquakes.

8. Tropical storm formation

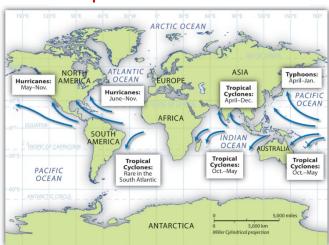


Natural Hazards key terms

Natural event	natural h	azard mar	ntle	oceanic cru	ust co	ntinental o	rust
tectonic plates	convecti	ion current	s co	nverge	diverg	ge ma	gma
volcano Ea	rthquake	focus	epicent	re Faul	t line	seismic wa	aves
Richter scale	constructiv	e margin	destru	uctive marg	gin tı	ropical sto	rms
hurricanes	cyclones	typhoor	ns Sa	ffir-Simpso	n scale	category	y
storm su	rge low	pressure	eye	eyewall	thunde	rstorms	

7. Tropical storm names and locations

risk to people.



Continental crust	Less dense that has the continents one			
Oceanic crust	Dense crust under the oceans			
Tectonic plates	Slabs of crust making the surface of Earth			
Plate margin	A joint in the crust between two plates			
Epicentre	The location on the surface above an earthquake			
Focus	Origin of earthquake within the crust of Earth			
magma	Molten rock in the mantle under the crust of Earth			
Fault line	A weakness or crack in the crust			
Seismic waves	The shockwaves given off during an earthquake			