**Tectonic Processes and Hazards research**

What is the global distribution of earthquakes, volcanoes and tsunamis?

What are the causes of earthquakes, volcanic eruptions and tsunamis?

Where are the plate boundaries?

What are hot spots and how are they created?

What is the theory of plate tectonics?

How does the theory operate at different plate boundaries?

What are the physical processes that impact on the magnitude and type of eruption and magnitude and depth of earthquakes (Benioff Zone)?

What are the earthquake waves? What do they cause?

What are the primary and secondary volcanic hazards?

What causes tsunamis? How does displacement happen?

How do we define natural hazard and disaster? What is vulnerability and resilience?

What is the hazard risk equation?

What is the Pressure and Release model?

What are the social and economic impacts of tectonic hazards on people, the economy and the environment? How do these differ in contrasting locations (developed/developing etc.)?

How do we measure the intensity of tectonic hazards? What scales are used?

How do we use hazard profiles to compare characteristics of tectonic hazards?

How can we use hazard profiles to compare impacts of hazards at differing levels of development?

How does inequality impact upon opportunities, vulnerability and resilience?

How do governance and geographical factors influence vulnerability and resilience?

How is the scale of disaster affected by development and physical factors?

What are the trends in tectonic disasters since 1960? Is the data accurate and reliable?

How to tectonic mega-disasters have regional/global significance?

What is a multiple-hazard zone? How do hydrometeorological hazards contribute to a tectonic disaster?

How can hazards be predicted and monitored?

What is the hazard management cycle and why are the different stages important?

What is the Park’s Model? How does this compare across areas of different stages of development?

What strategies can be used to modify events?

What strategies can be used to modify vulnerability and resilience?

What strategies can be used to modify loss?