

ESS111

TUTORIAL 2 – TECTONIC & VOLCANIC ENVIRONMENTS

The purpose of this practical is to apply your knowledge and understanding of the lithosphere and processes related to in order to gain a better (global) understanding of various environments that we have on earth. These processes cause and shape new environments all the time to which people and other life forms have responded and are still responding in different ways. It is important that you keep in mind that the lithosphere is but one of the realms that constitute our integrated earth system.

Use the map attached and do/answer the following:

1. Source information on the location of lithospheric plates. Draw now the boundaries of those plates in (using a legend of your choice) on the map. Acknowledge the reference(s) that you have used in this regard.
2. Source information on the location of mid-oceanic ridges. Draw now those ridges in (using legend of your choice) on the map above. Acknowledge the reference(s) that you have used in this regard.
3. Briefly describe the differences and similarities between the boundaries of lithospheric plates and the location of mid-oceanic ridges if any.
4. Briefly describe the relationship between the location of major volcanoes, lithospheric plates and mid-oceanic ridges if any.
5. Indicate on your map the latitude and longitude locations of the (recently) active volcanoes Mt Nyiragongo (2002) in the Democratic Republic of Congo and at Eyjafjallajökull in Icelando(2010)
6. Source relevant information and briefly describe now how the eruptions of those volcanoes have influenced and changed their immediate and broader environments by focussing on impacts caused in the:
 - (a) Lithosphere
 - (b) Hydrosphere
 - (c) Atmosphere
 - (d) Biosphere

NB: You may work individually or in groups of maximum five. Submissions preferably to be typed out. Please acknowledge and reference all the sources that you have used.

Due date - 24 February 2011 @ 1400.

Source: <http://www.mapsofworld.com/major-volcanoes.htm>

WORLD: Major Volcanoes

