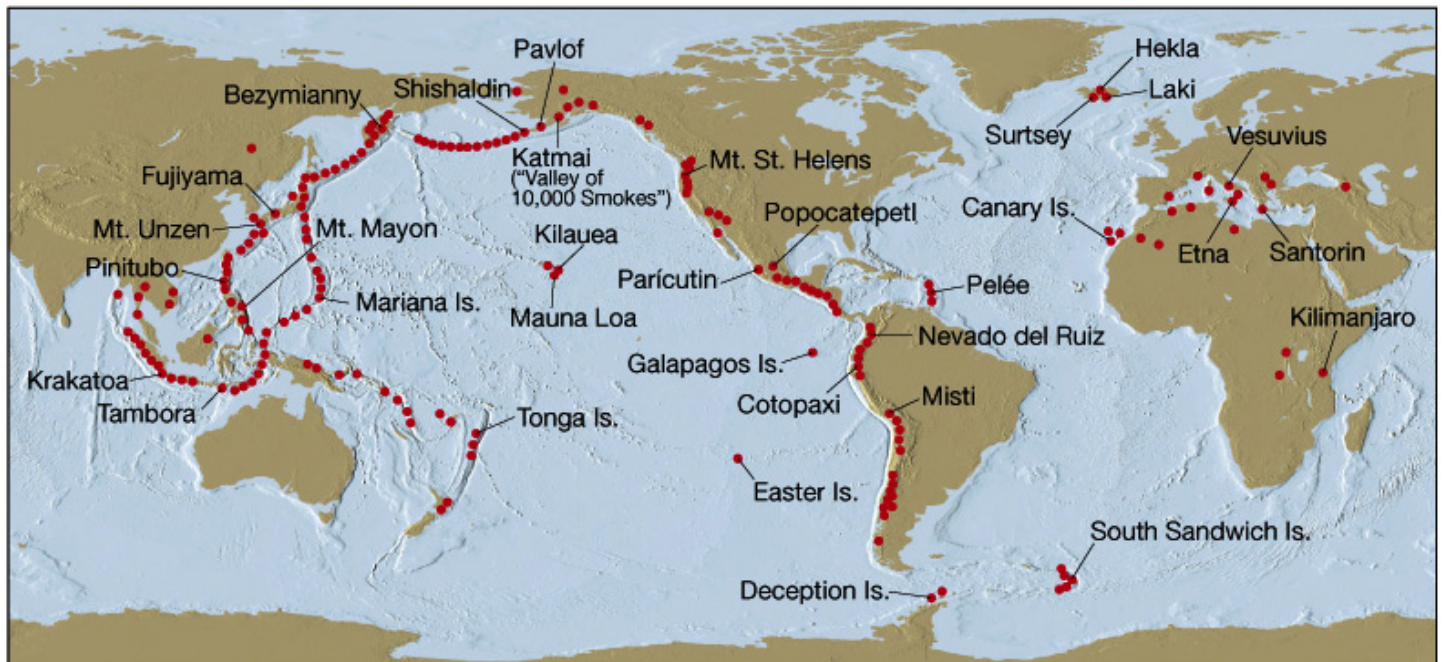


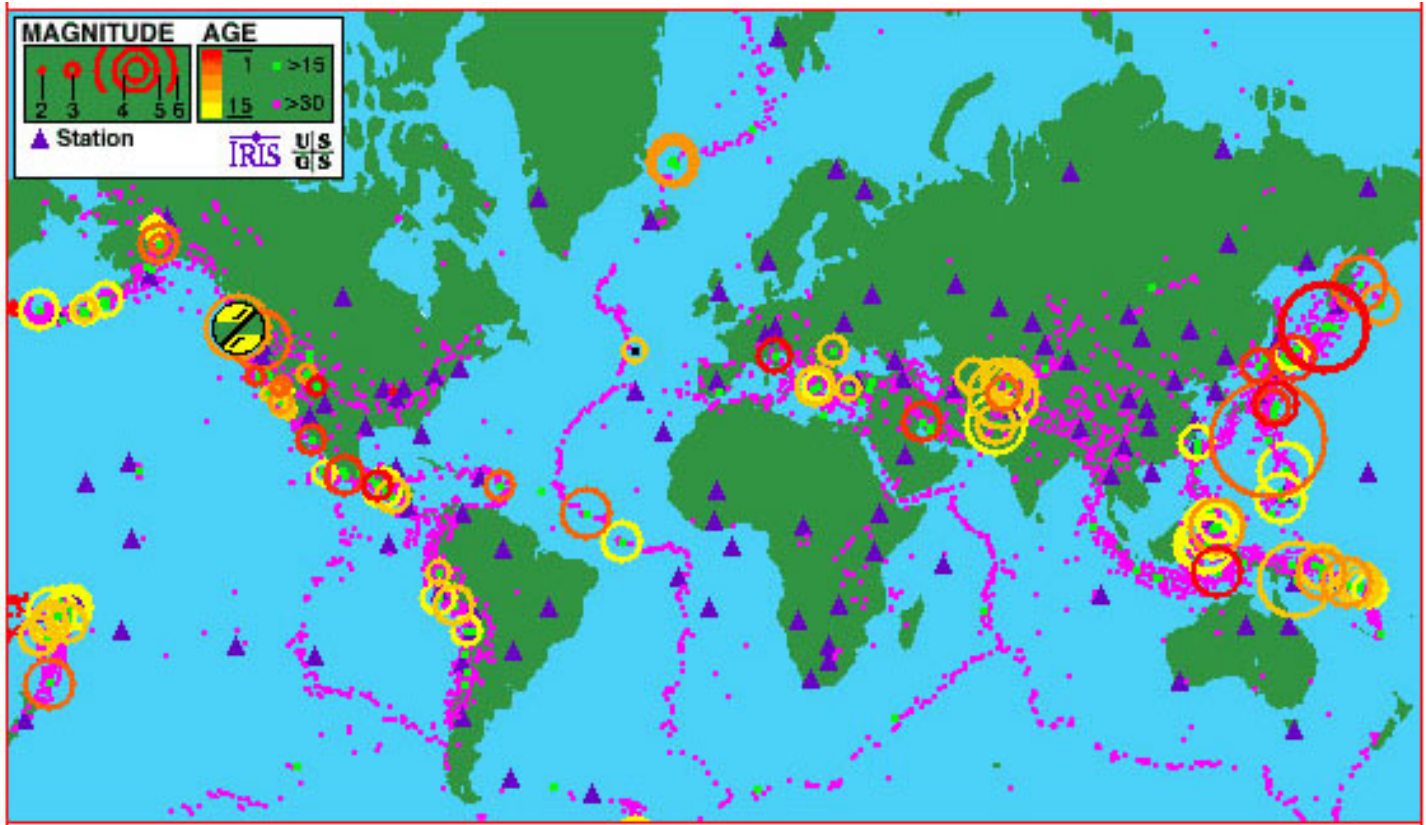
Physiographic characteristics and geologic process correlations



Above is a physiographic map of the planet. Note the major mountain ranges are primarily along the edges of continents, but not along all continental edges. Also, a major mountain range stretches along the center of the ocean basins. Furthermore, the highest mountain range on the planet is in the interior of the Eurasian continent. A feature that is harder to see, but is present are the areas of the deepest parts of the ocean. After noting the locations of these topographic features, compare them to the locations for the geologic processes in the following three maps.

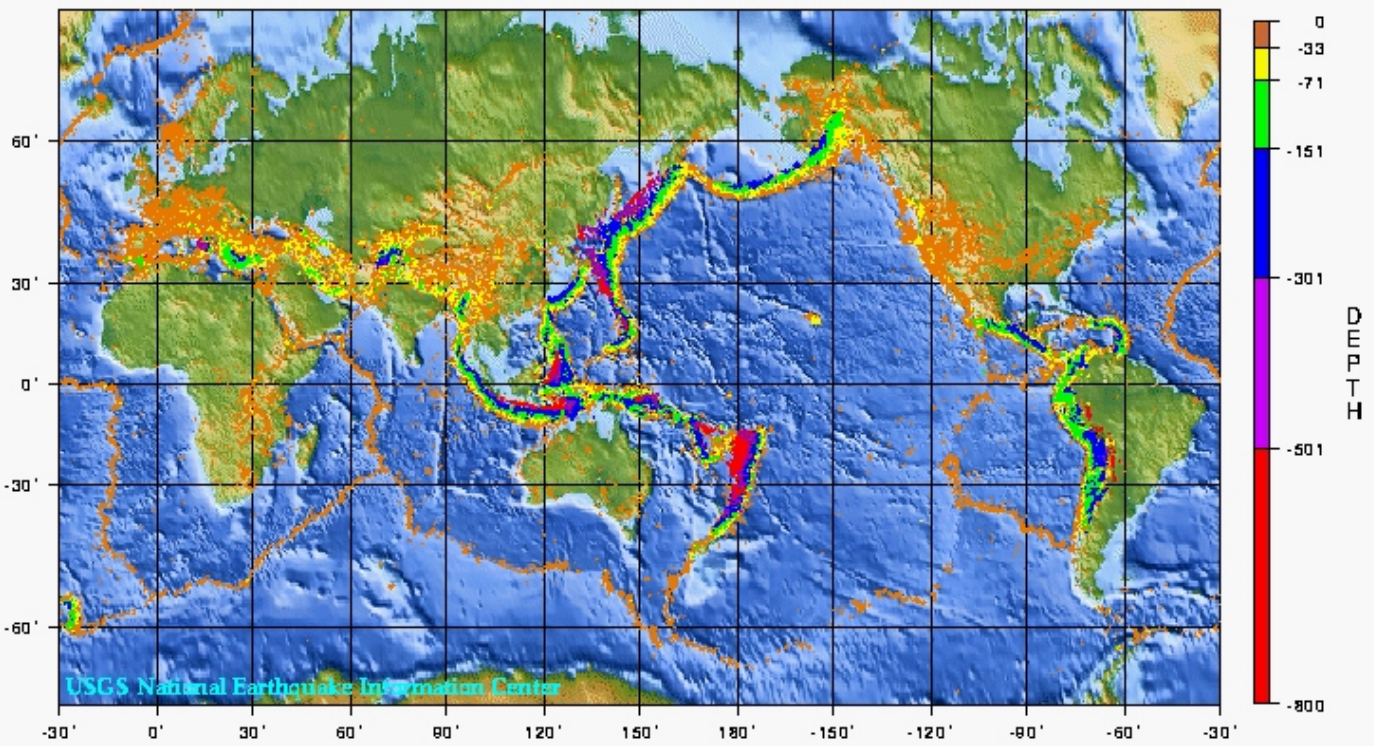


Above is a map of the major volcanic centers of the planet. Note that this does not include volcanism at spreading boundaries. Also, note that some mountain ranges are coincident with volcanism, whereas others are not.



Above is a world map of earthquakes displaying their magnitude. Note both the pattern in their locations and in where the largest earthquakes are located and where there are only small earthquakes.

World Seismicity: 1975 - 1995



Above is a world map of earthquakes displaying the depth of the earthquake focus. Note where there are only shallow earthquakes and where there are both shallow and deep. Also, note when there is a pattern to the depth the earthquakes occur. Compare this map to the magnitude map above.