Assignment 6

A close up of a map

Description automatically generated

Figure 1

For analysis I have divided the earthquake magnitudes into three categories. Level 1 which are shown by red diamonds indicate magnitude levels that range between 2.45 to 3.5, level 2 which are yellow dots indicate magnitude levels that range between 3.51 to 5 and level 3 which are pink triangles indicate magnitude levels that range from 5.1 and above. Figure 1 shows the total distribution of earthquake over a 30-day span and also many cities along with its population. It can be seen from the figure that parts of North America experiences level 1 earthquakes this affects cities like Minneapolis, Los Angeles, New Orleans and Olympia where the population is quite high. While level 2 magnitudes are much more spread-out, they keep occurring in many regions of the world. In the South American continent countries like Argentina, Bolivia, Mexico, Chile and Peru have been experiencing constant level 2 earthquakes. The cities in those regions each have a population of more than 100,000 people. From the video it be seen that during the 30-span period there have been constant level 2 earthquakes which occur randomly without any specific pattern which has been affecting Asian countries as well as South American continent countries which border the Pacific Ocean. Level 3 earthquakes have been occurring near the Asian continent mostly near cities that borders the Pacific Ocean like Japan, Philippines, Indonesia and also near countries like Turkey and Iran. Mostly Asian countries experiences these level three earthquakes while in the other regions these level 3 earthquakes are comparatively much less, but they did occur in countries like Peru and Chilie.