

FINAL ASSIGNMENT PROPOSAL

YITONG GUAN

DESCRIPTION:

Japan's Earthquakes on March, 11th 2011

Solar System and Earthquakes <<https://www.kaggle.com>>

DATA SOURCES:

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QUESTIONS:

1. What is the relationship between the number and magnitudes of earthquakes . And the different rate of the Earth Plate tectonics, especially the highest rate shown in this area.
2. Whether the earthquakes in this area has the circle? And whether the periods length to astronomic objects will influence the earthquakes?
3. What are the correlations between earthquake and the rectascension of Sun and Moon longitude? Or not existent?
4. Can we analysis the period of different type of earthquakes from the view of sun and moon.
5. When did the main shock happened? And what about a succession of aftershocks happened? And how long did them last for?
6. Can we track the positions of the aftershocks and time ?
7. What are the correlations between Solar/Lunar eclipse and Earthquake occurrences?

PYTHON LIBRARIES USED:

1. Pandas
2. Numpy
3. Matplotlib
4. Seaborn
5. Bokeh
6. Basemap
7. Geoplotlib
8. Missingno

THE TYPE OF VISUALIZATION:

1. Map
2. Graphs

