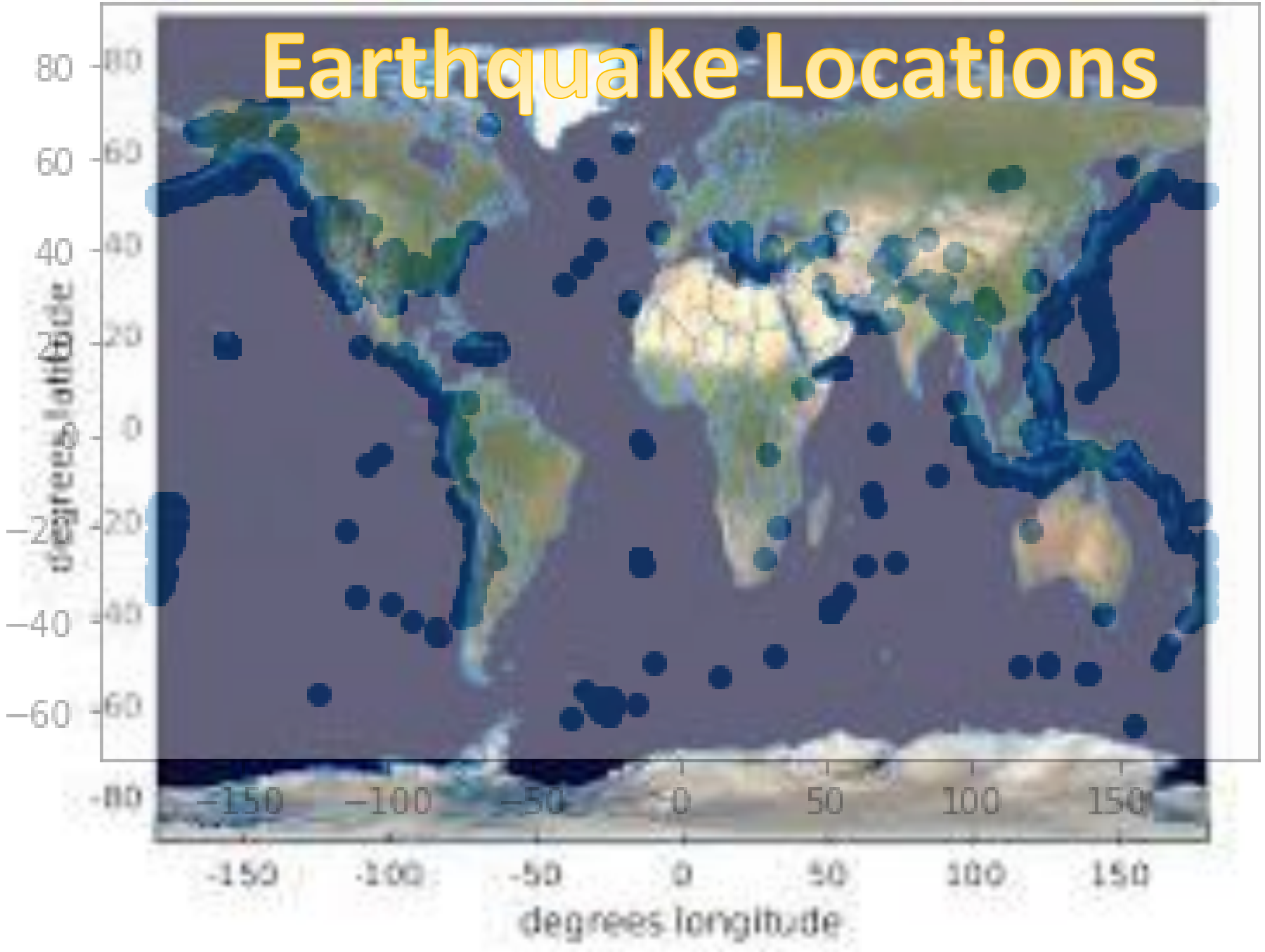
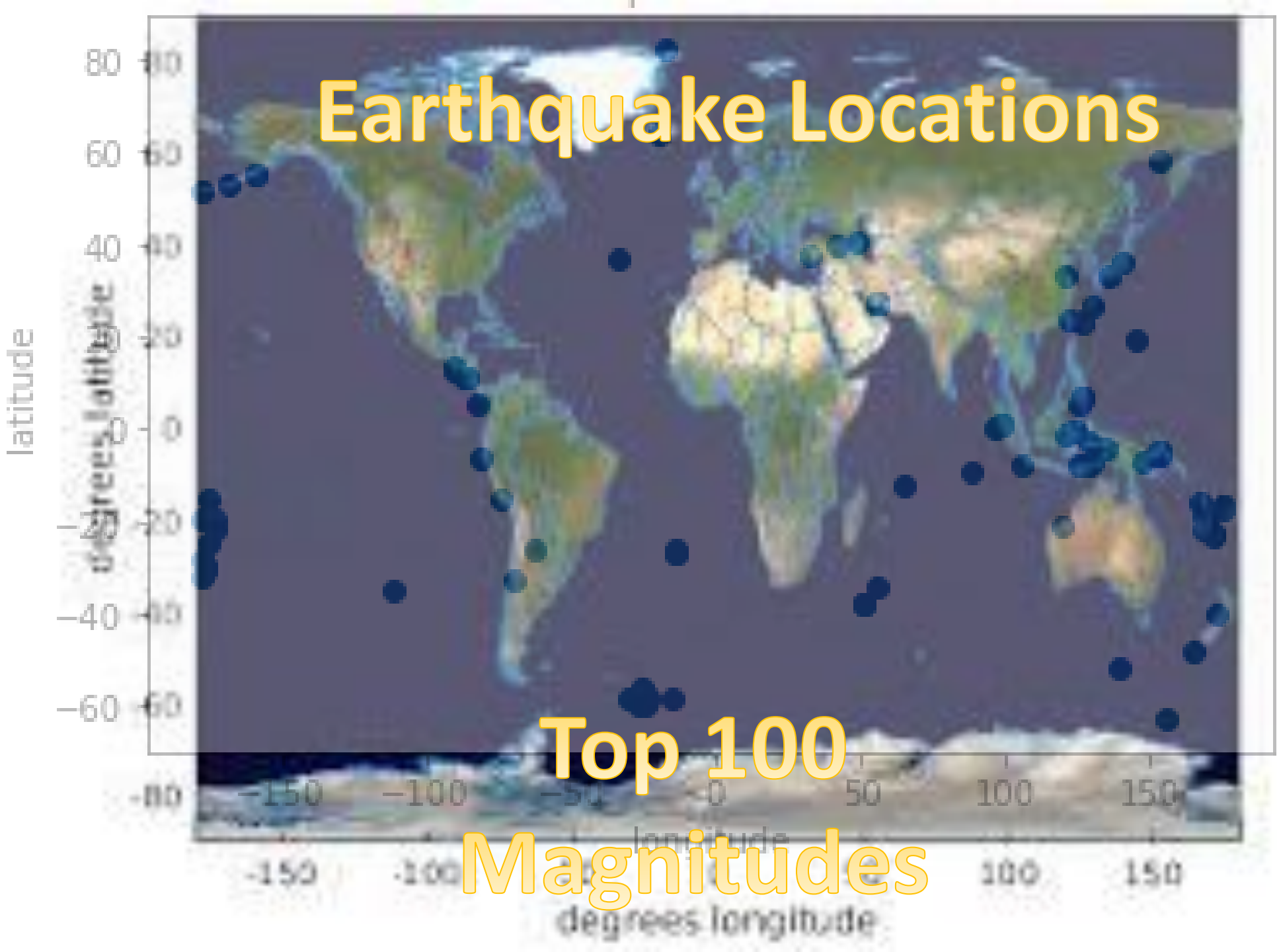
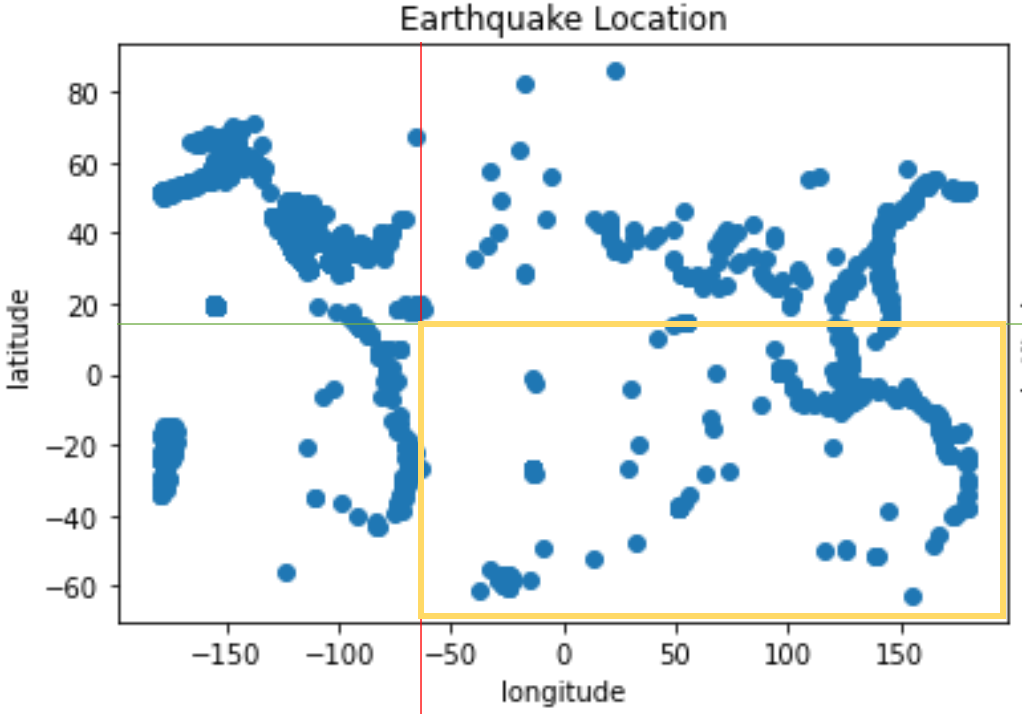
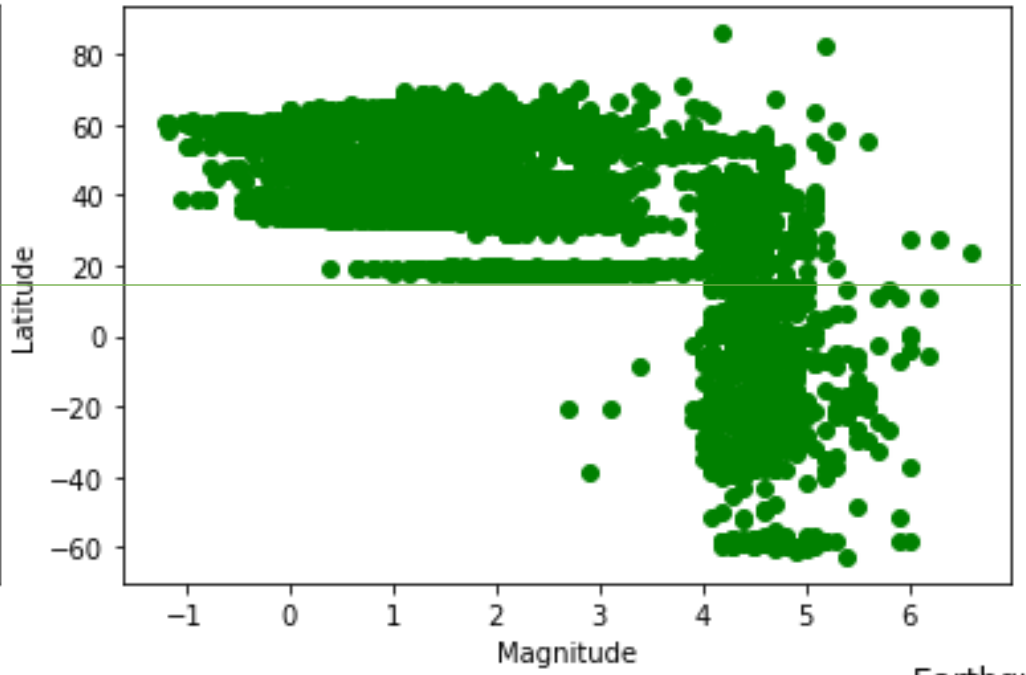
Analysis of Location and Depth on Earthquake Magnitude.

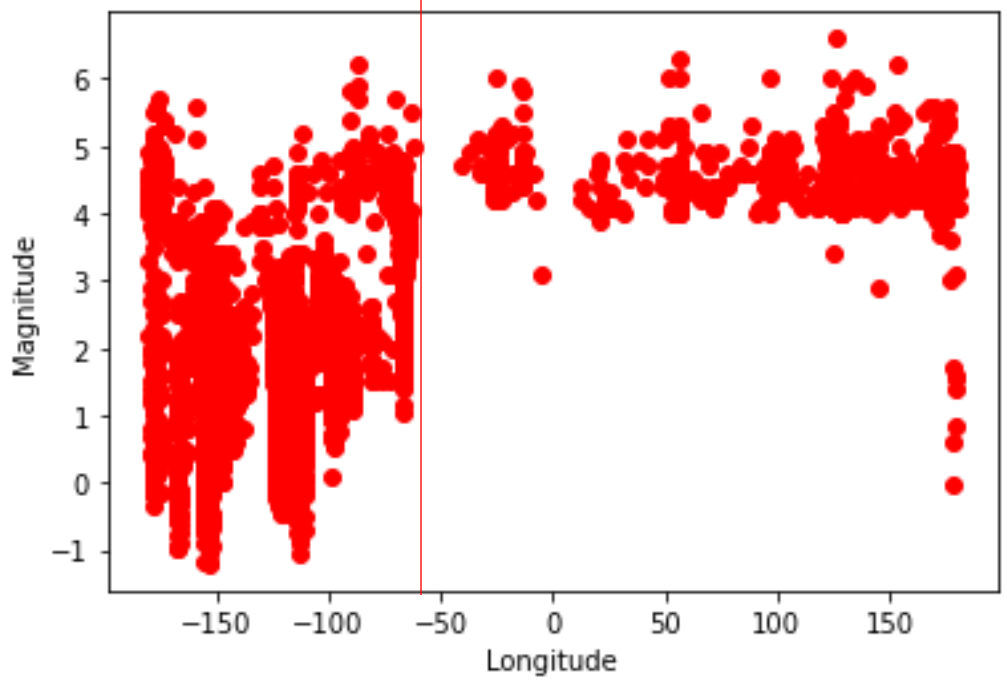
Earthquake Locations

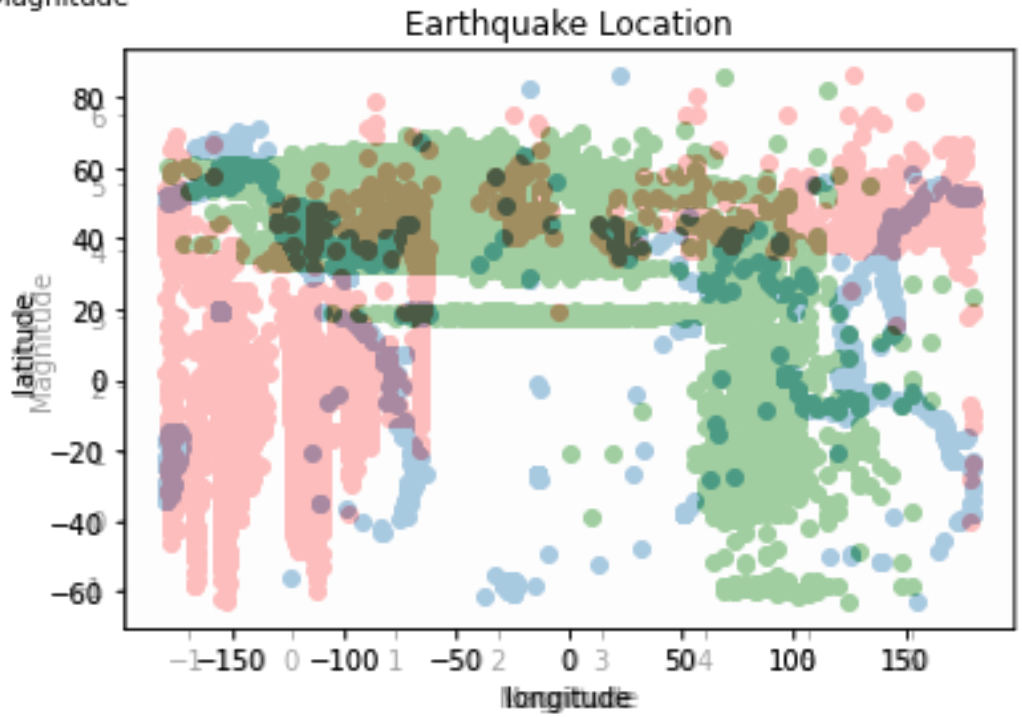


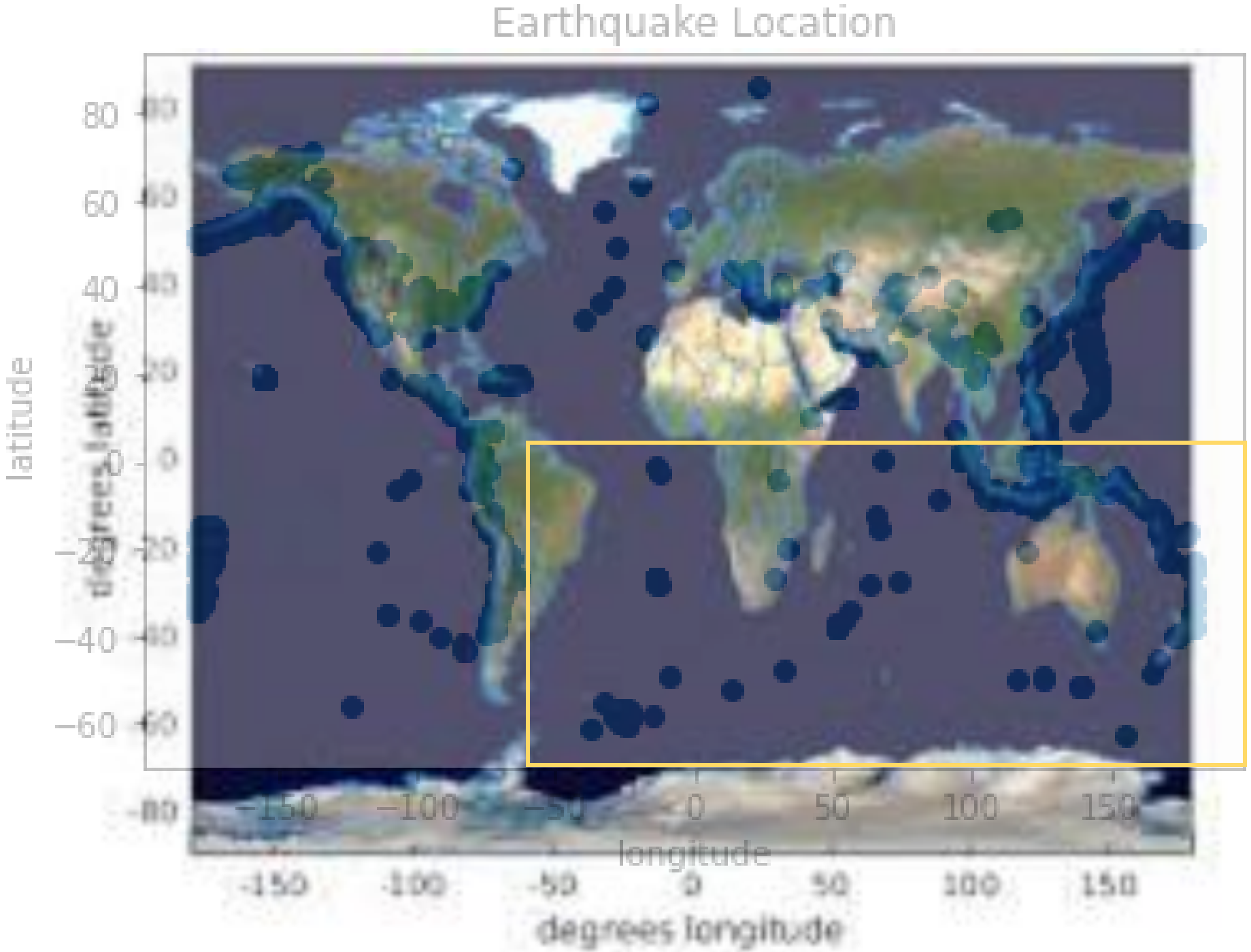

Earthquake Locations
Top 100
Magnitudes
latitude
degrees latitude
80
60
40
20
0
−20
−40
−60
-80
−150
−100
−50
0
50
100
150
degrees longitude


Earthquake Location
latitude
longitude
80
60
40
20
0
−20
−40
−60
−150
−100
−50
0
50
100
150

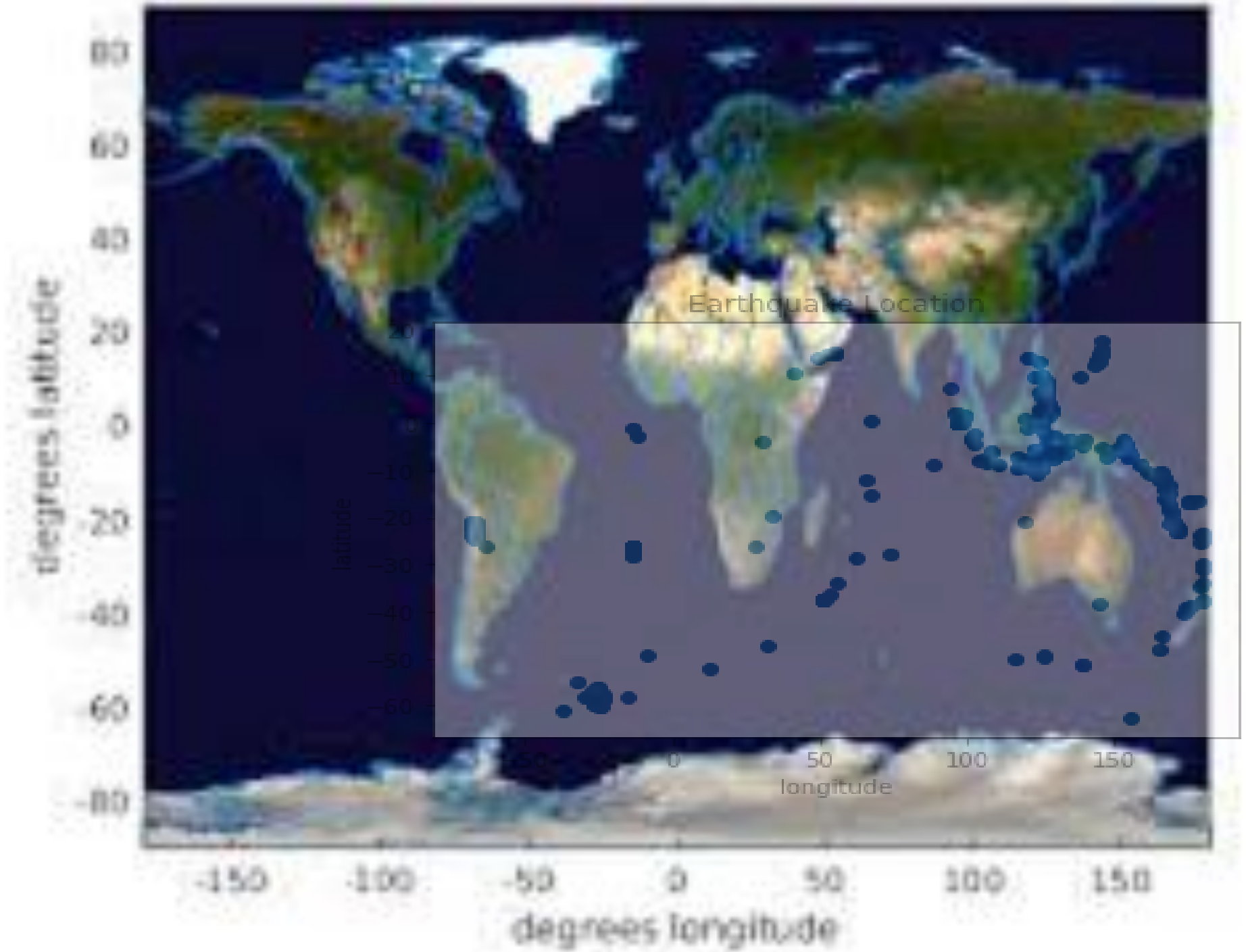

Latitude
Magnitude
80
60
40
20
0
−20
−40
−60
−1
0
1
2
3
4
5
6

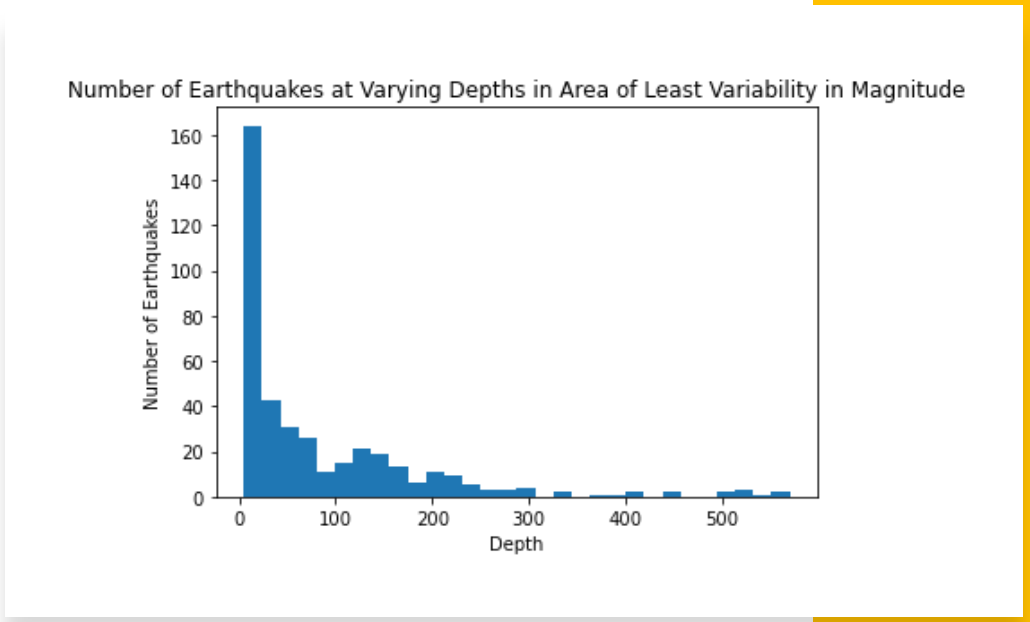

Magnitude
Longitude
6
5
4
3
2
1
0
−1
−150
−100
−50
0
50
100
150


Earthquake Location
latitude
longitude
80
60
40
20
0
−20
−40
−60
−150
−100
−50
0
50
100
150

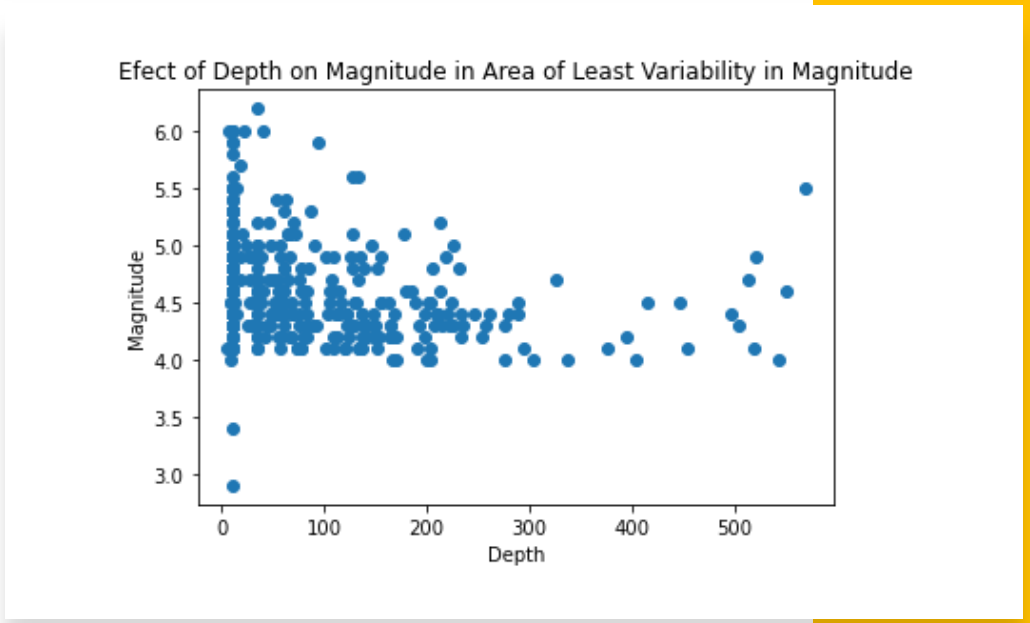


Area with least variability in magnitude.

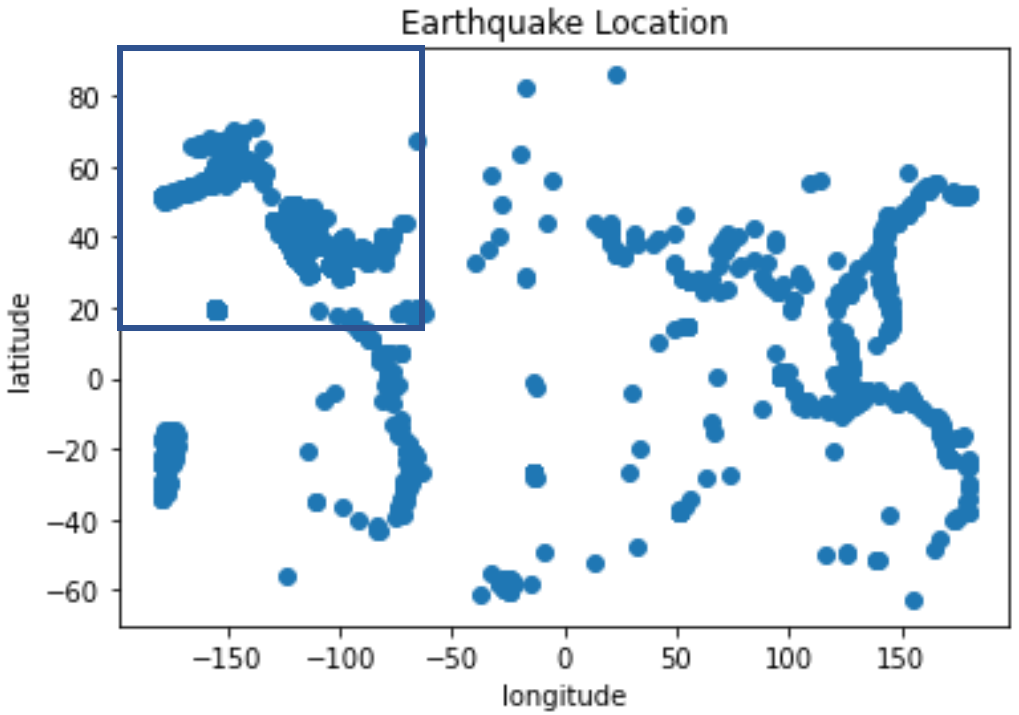

Earthquake Location
degrees latitude
degrees longitude
latitude
longitude
80
60
40
20
0
-20
-40
-60
-80
-150
-100
-50
0
50
100
150

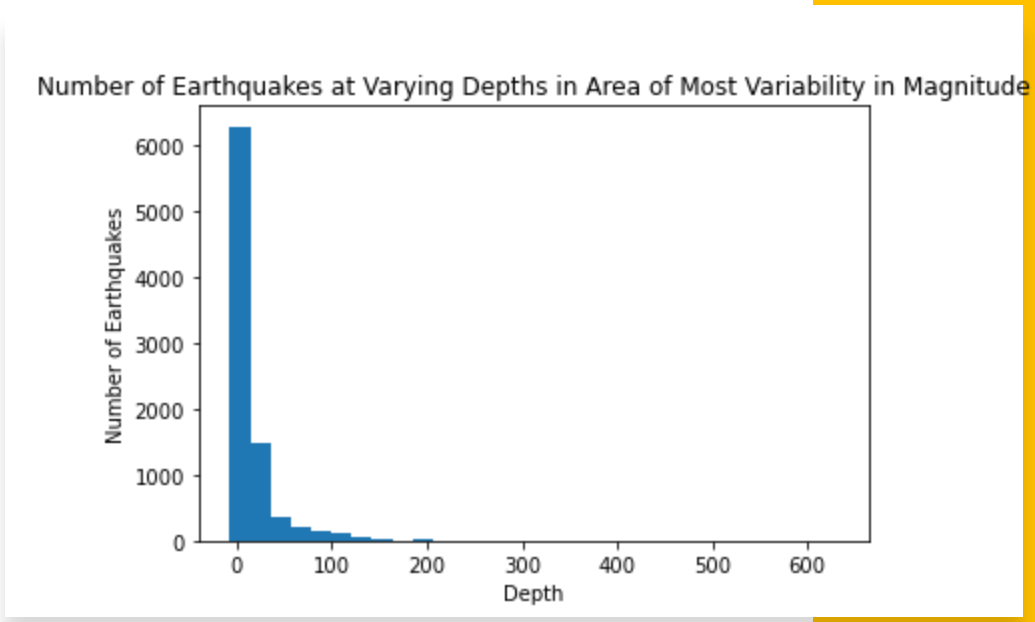


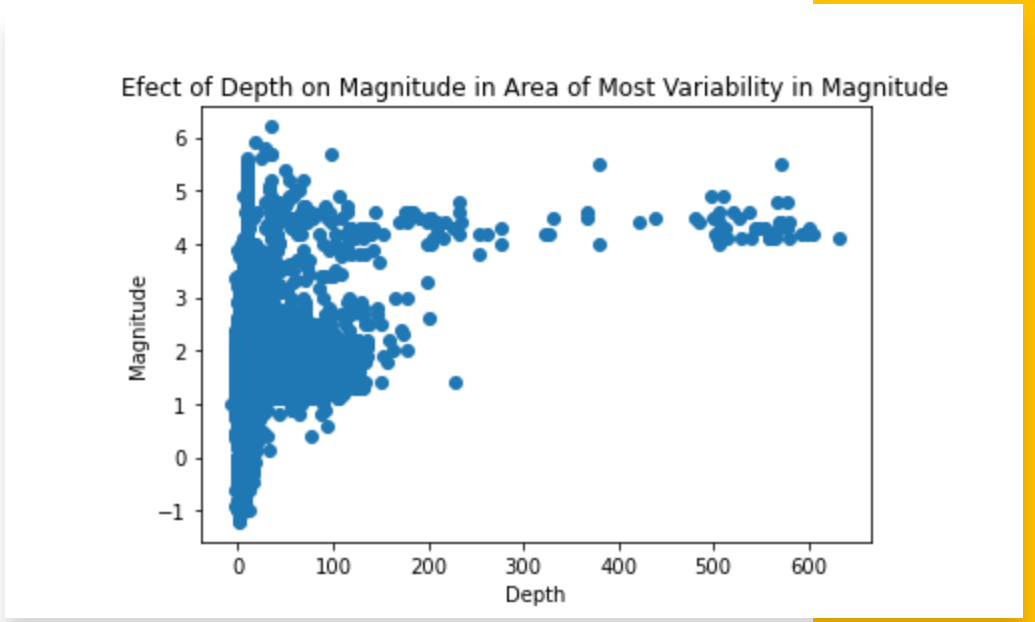
- It superficially appears that magnitude doesn't depend on depth and its possible it is due to chance as the more earthquakes the more likely to be an earthquake with high magnitude.



- Here there appears to be an effect of depth on magnitude.







Further Action

01

Investigate the reasons for different variability in different areas

02

Investigate further the impact of depth on Magnitude

03

Look for other factors in Magnitude