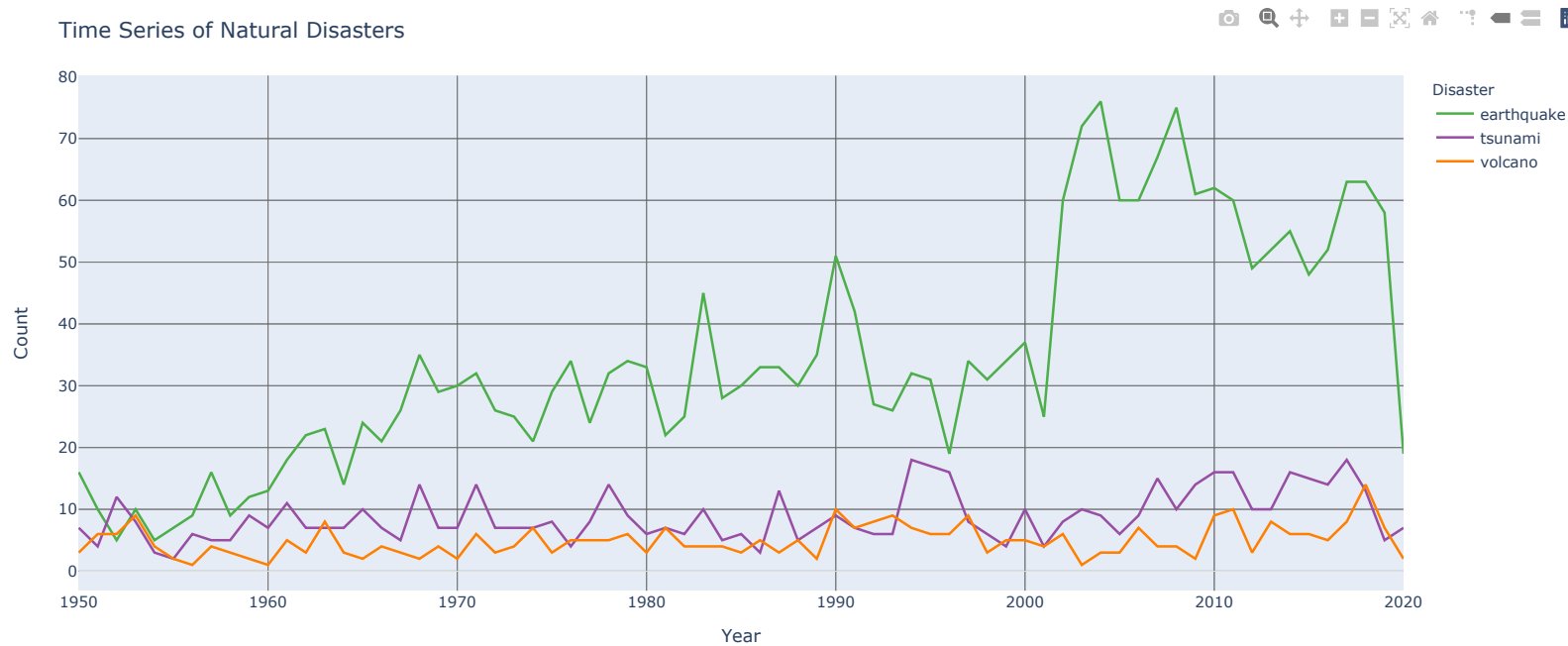


# Natural Disaster Data Analysis

Analysis of volcano, earthquake, and tsunami data from the NOAA.

Time Series of Natural Disasters



Map of Natural Disasters

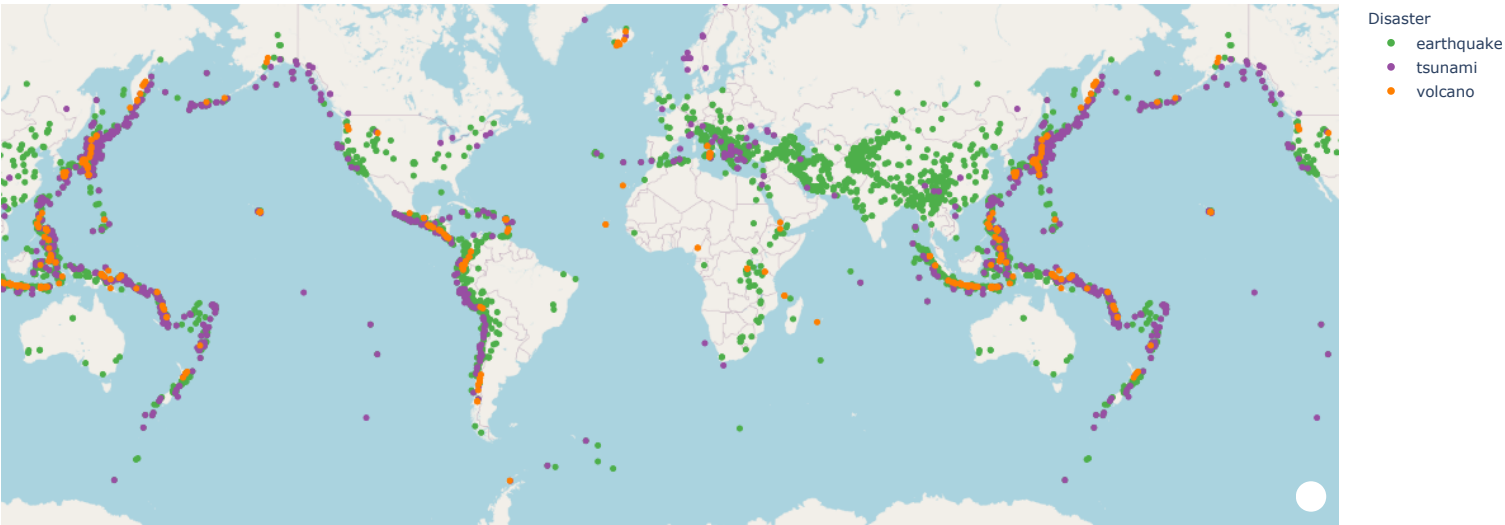


Table of Years

Year	Count
1950s	14
1960s	14
1970s	21
1980s	36
1990s	29
2000s	36
2010s	45

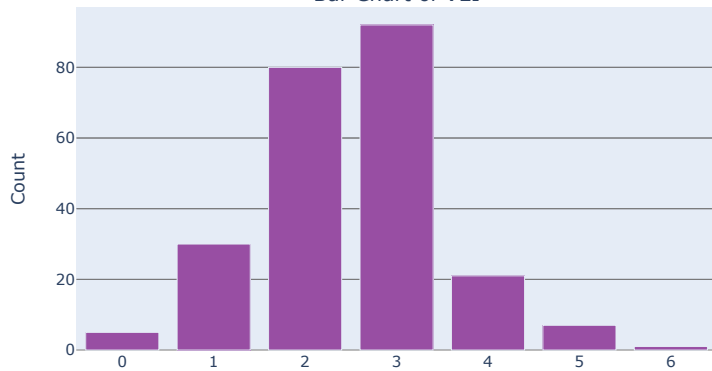
Table of Disasters

Disaster	Count
earthquake	124
tsunami	52
volcano	19

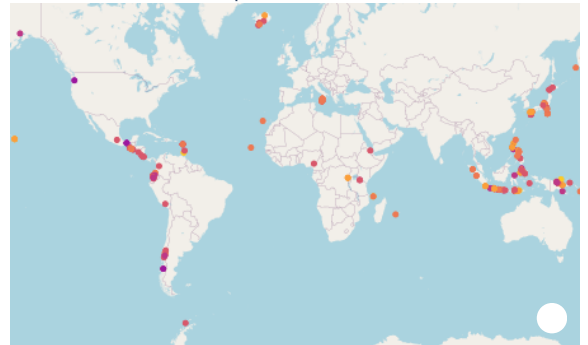
Select a country from the subset of countries with more than thirty natural disasters.

# Volcanoes

Bar Chart of VEI

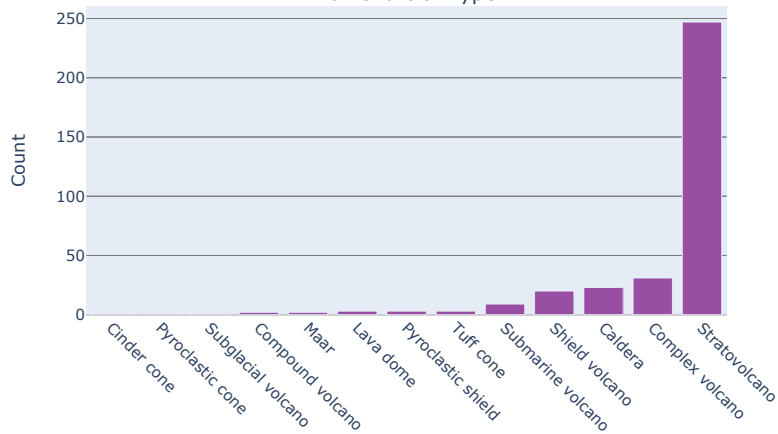


Map of VEI

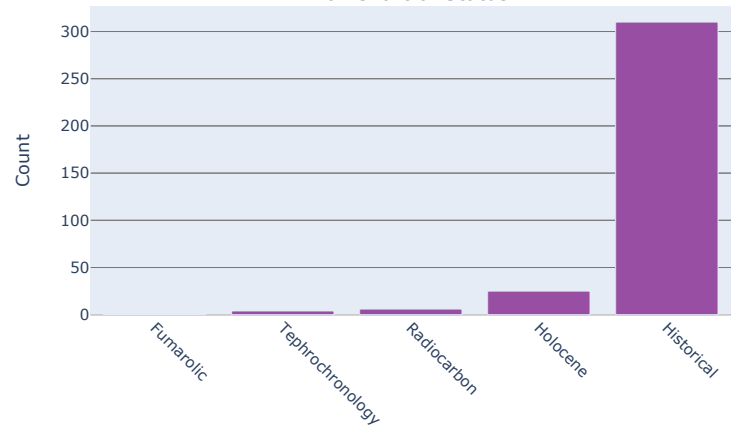


VEI measures the explosiveness of a volcano based on the volume of deposits. VEI=0 is the smallest explosive level; VEI=8 is the largest explosive level.

Bar Chart of Type



Bar Chart of Status

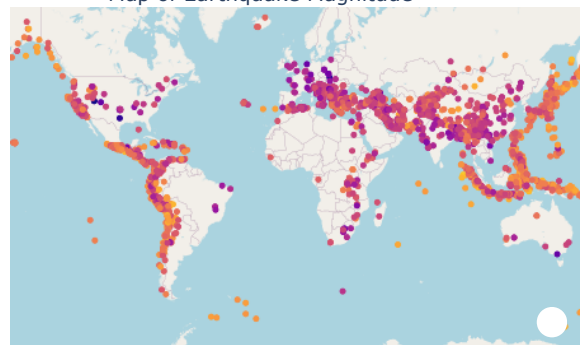


# Earthquakes

Density of Earthquake Magnitude



Map of Earthquake Magnitude

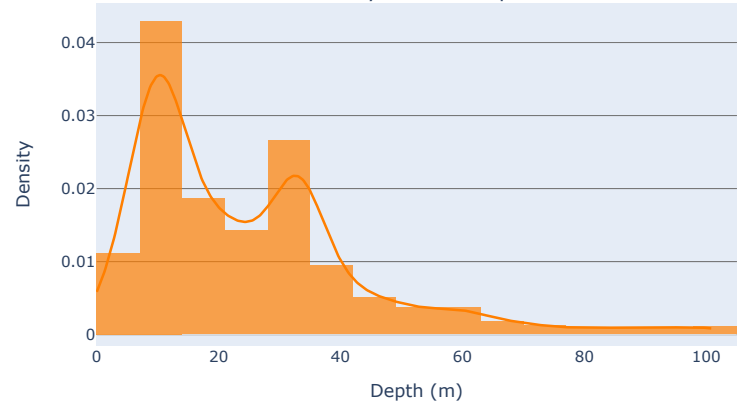


The Richter scale measures the magnitude of an earthquake. Richter scale=1 is the smallest magnitude; Richter scale=10 is the largest magnitude.

Focal Depth Summary Statistics

Statistic	Value
count	2426
mean	35.69002473206925
std	64.04365424385658
min	0
25%	10
50%	22
75%	34
max	675

Density of Focal Depth



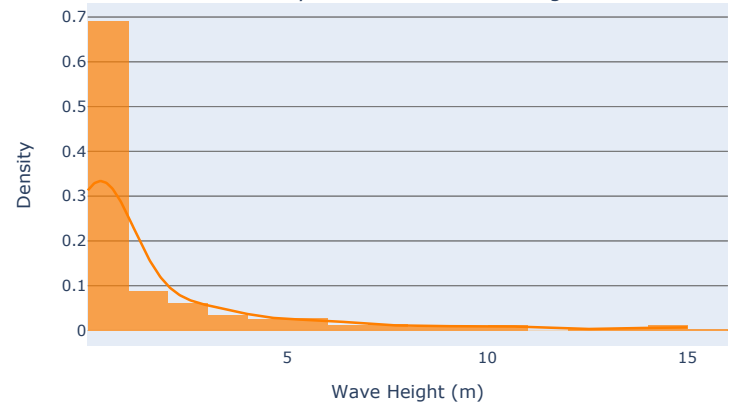
The focal depth is the depth where the hypocenter of an earthquake occurs. The hypocenter is the point below ground where an earthquake starts.

## Tsunamis

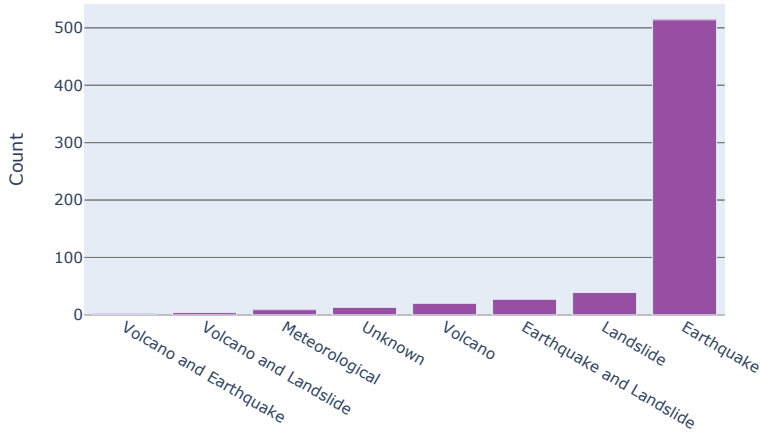
Maximum Water Height Summary Statistics

Statistic	Value
count	628
mean	5.32148089171975
std	27.58466587190036
min	0.01
25%	0.13
50%	0.43
75%	2.7
max	524.6

Density of Maximum Water Height



Bar Chart of Cause Code



Violin Plot of Cause Code and Wave Height

