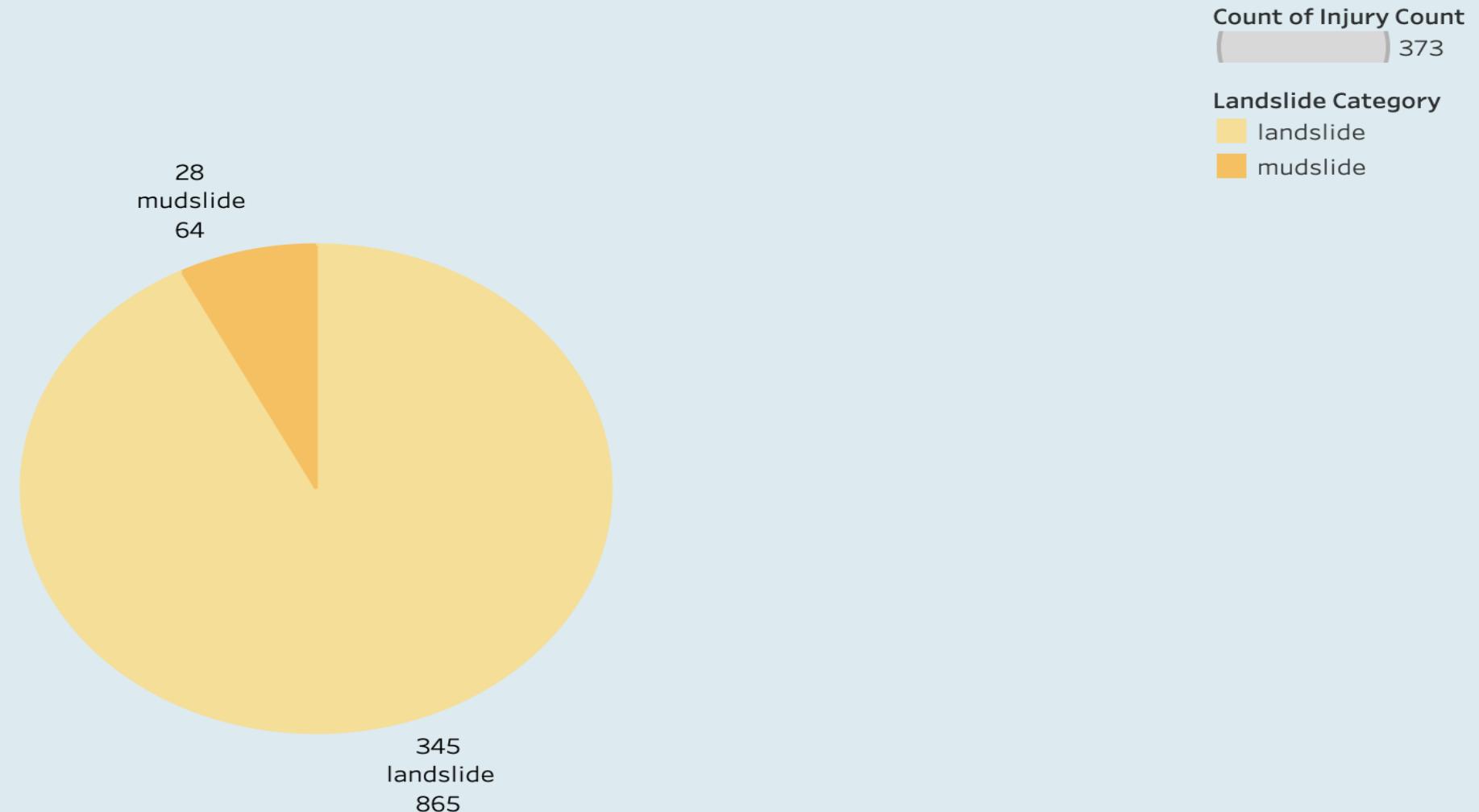


# NASA Landslide Data Visualization

Shreyanth H G

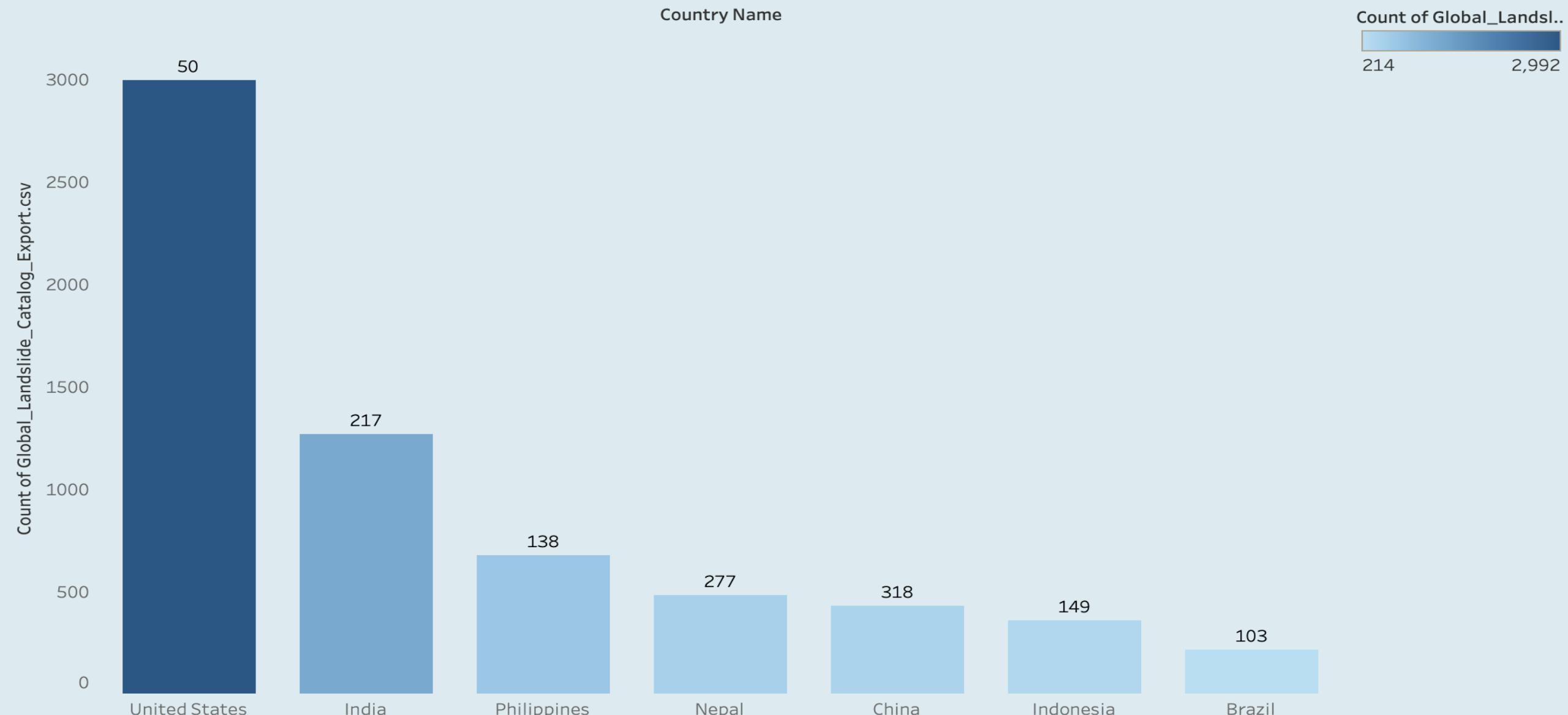
Data scientist

# India mudslide and landslide



Count of Injury Count, Landslide Category and count of Fatality Count. Color shows details about Landslide Category. Size shows count of Injury Count. The marks are labeled by count of Injury Count, Landslide Category and count of Fatality Count. The data is filtered on Country Name, which keeps India. The view is filtered on Landslide Category, which keeps landslide and mudslide.

# Top 7 country landslide and injury count



Count of Global\_Landslide\_Catalog\_Export.csv for each Country Name. Color shows count of Global\_Landslide\_Catalog\_Export.csv. The marks are labeled by sum of Injury Count. The view is filtered on Country Name and count of Global\_Landslide\_Catalog\_Export.csv. The Country Name filter keeps 7 of 142 members. The count of Global\_Landslide\_Catalog\_Export.csv filter ranges from 1 to 2,992.

# Land slide category and count

11K

10K

9K

8K

7K

6K

5K

4K

3K

2K

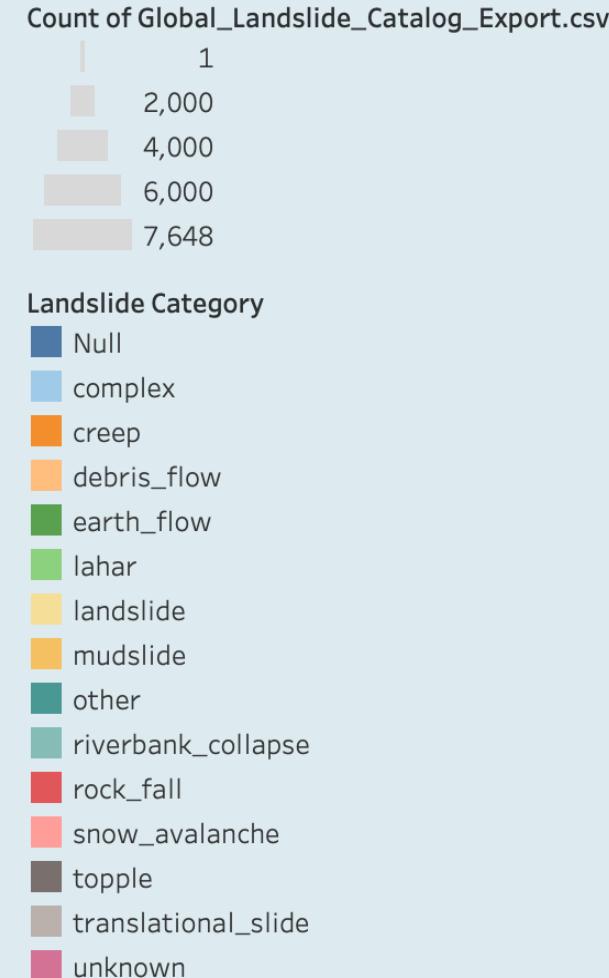
1K

0K

landslide

mudslide

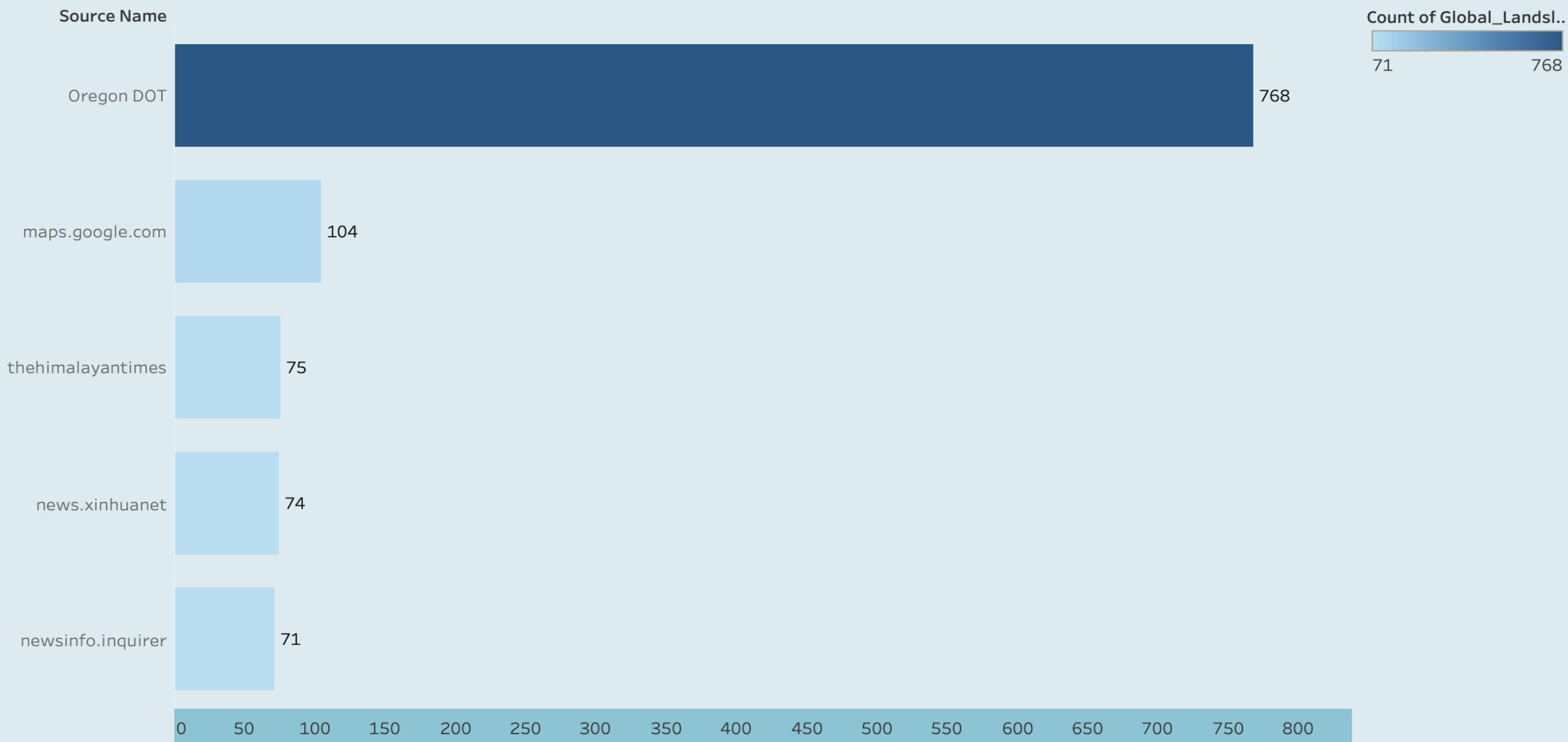
rock\_fall



Count of Global\_Landslide\_Catalog\_Export.csv. Color shows details about Landslide Category. Size shows count of Global\_Landslide\_Catalog\_Export.csv.

The marks are labeled by Landslide Category.

## Top 5 sources of event reported



Count of Global\_Landslide\_Catalog\_Export.csv for each Source Name. Color shows count of Global\_Landslide\_Catalog\_Export.csv. The marks are labeled by count of Global\_Landslide\_Catalog\_Export.csv. The view is filtered on Source Name, which keeps maps.google.com, news.xinhuanet, newsinfo.inquirer, Oregon DOT and thehimalayantimes.

# Top 5 land slide category and injury count

Landslide C..

landslide



mudslide

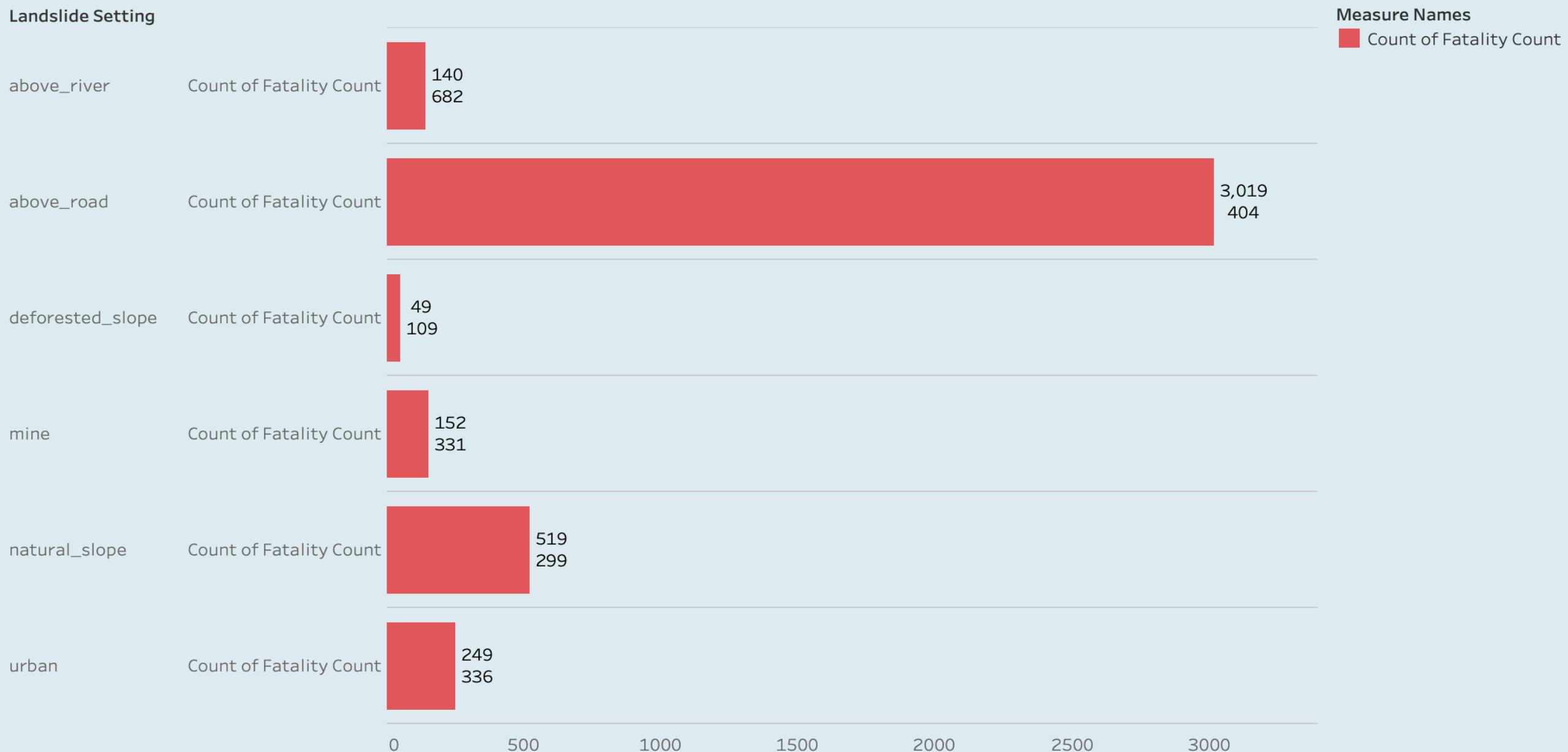
rock\_fall

complex

debris\_flow

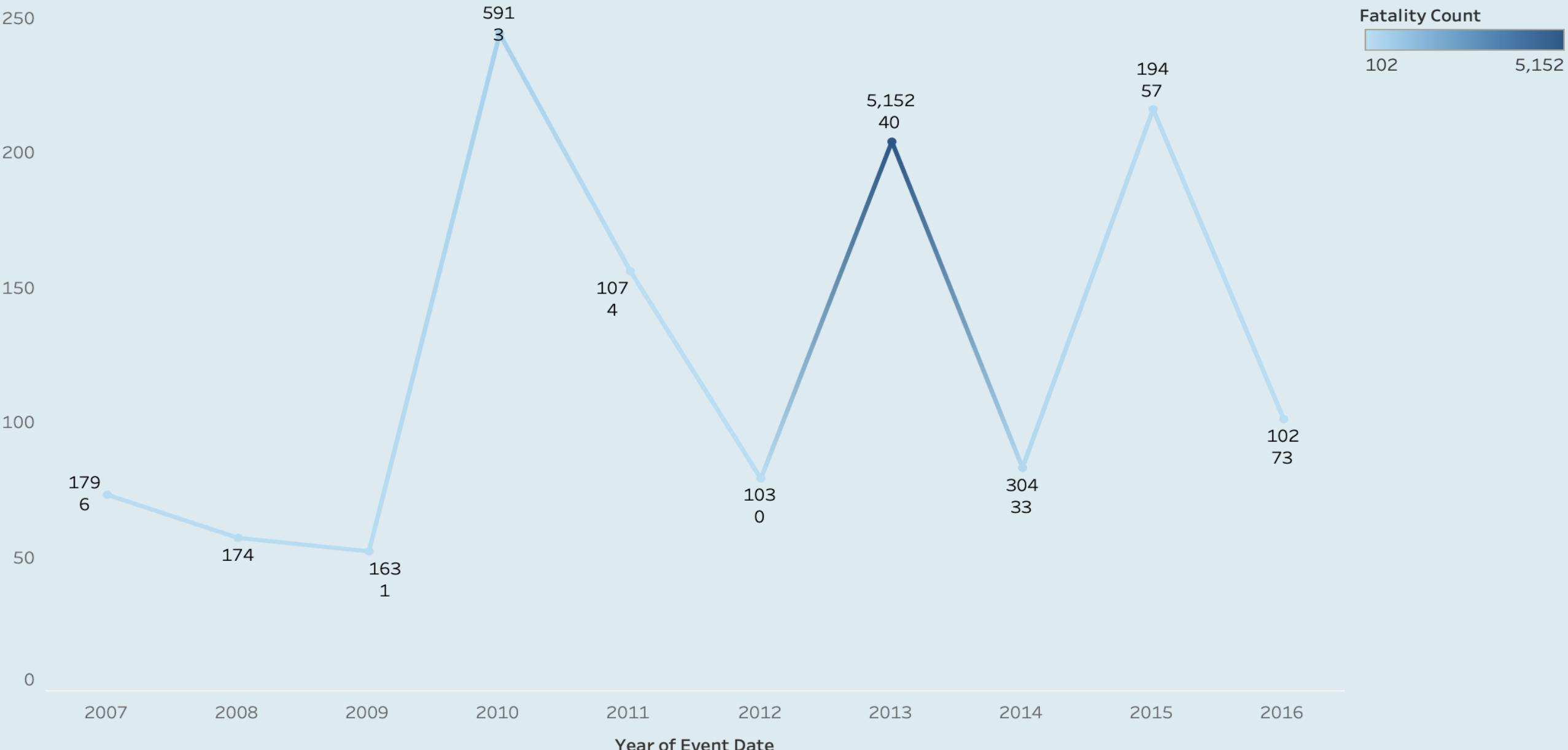
Count of Global\_Landslide\_Catalog\_Export.csv for each Landslide Category. The view is filtered on Landslide Category, which keeps complex, debris\_flow, landslide, mudslide and rock\_fall.

# Fatality count based on landslide type



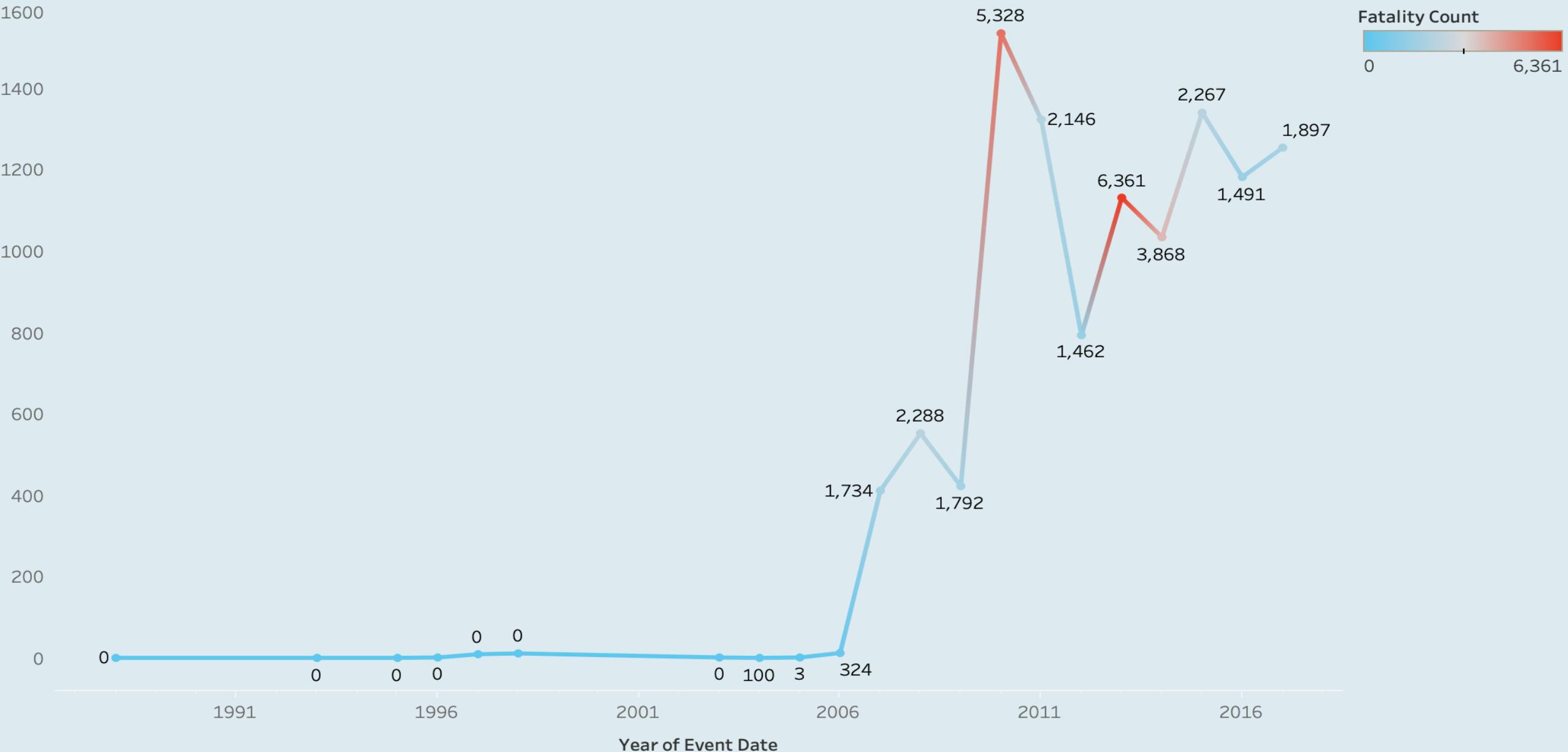
Count of Fatality Count for each Landslide Setting. Color shows details about count of Fatality Count. The marks are labeled by count of Fatality Count and sum of Injury Count. The view is filtered on Landslide Setting, which keeps 6 of 15 members.

# India fatality and injury count in Time series



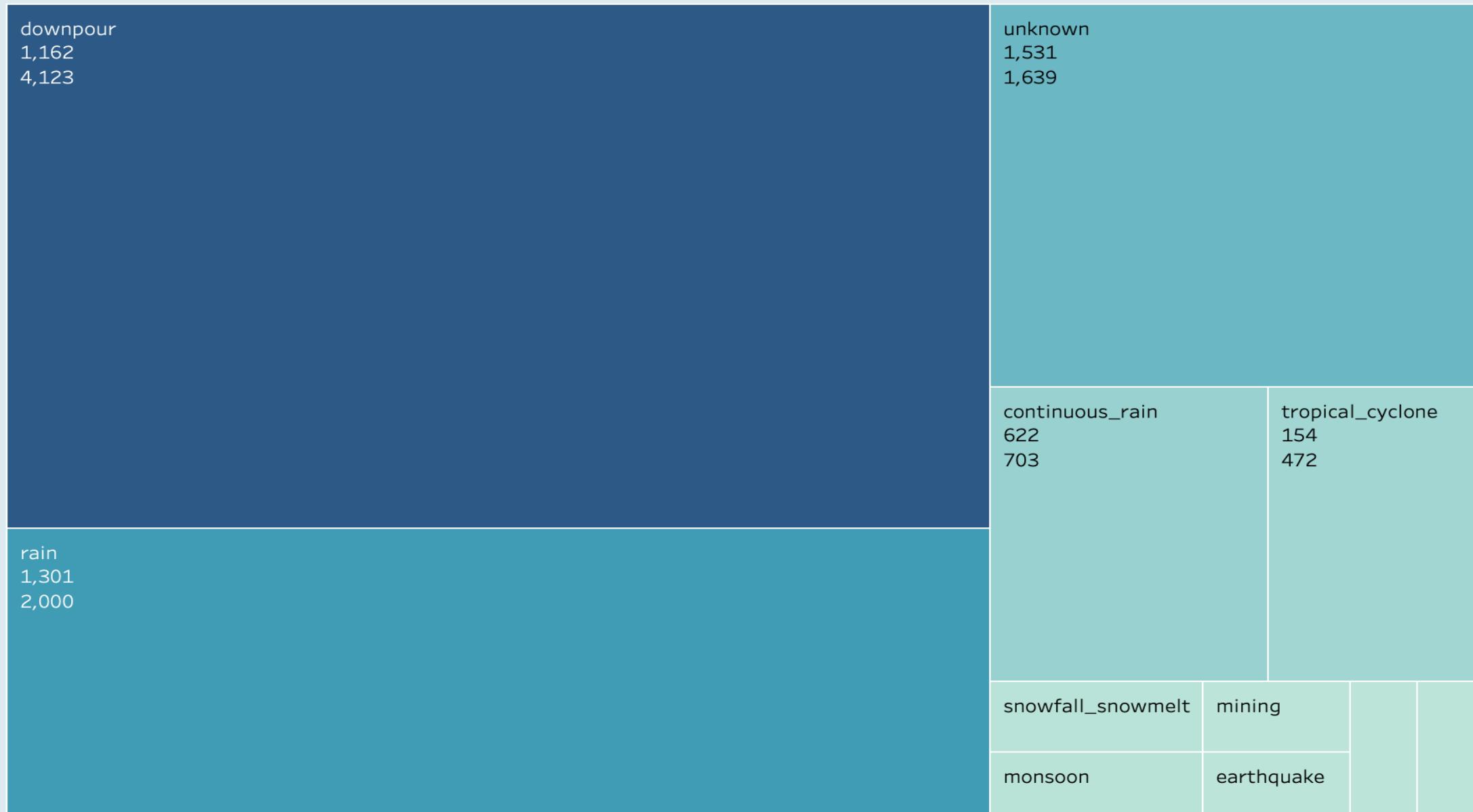
The trend of count of Global\_Landslide\_Catalog\_Export.csv for Event Date Year. Color shows sum of Fatality Count. The marks are labeled by sum of Fatality Count and sum of Injury Count. The data is filtered on Country Name, which keeps India.

# Fatality count in Time series



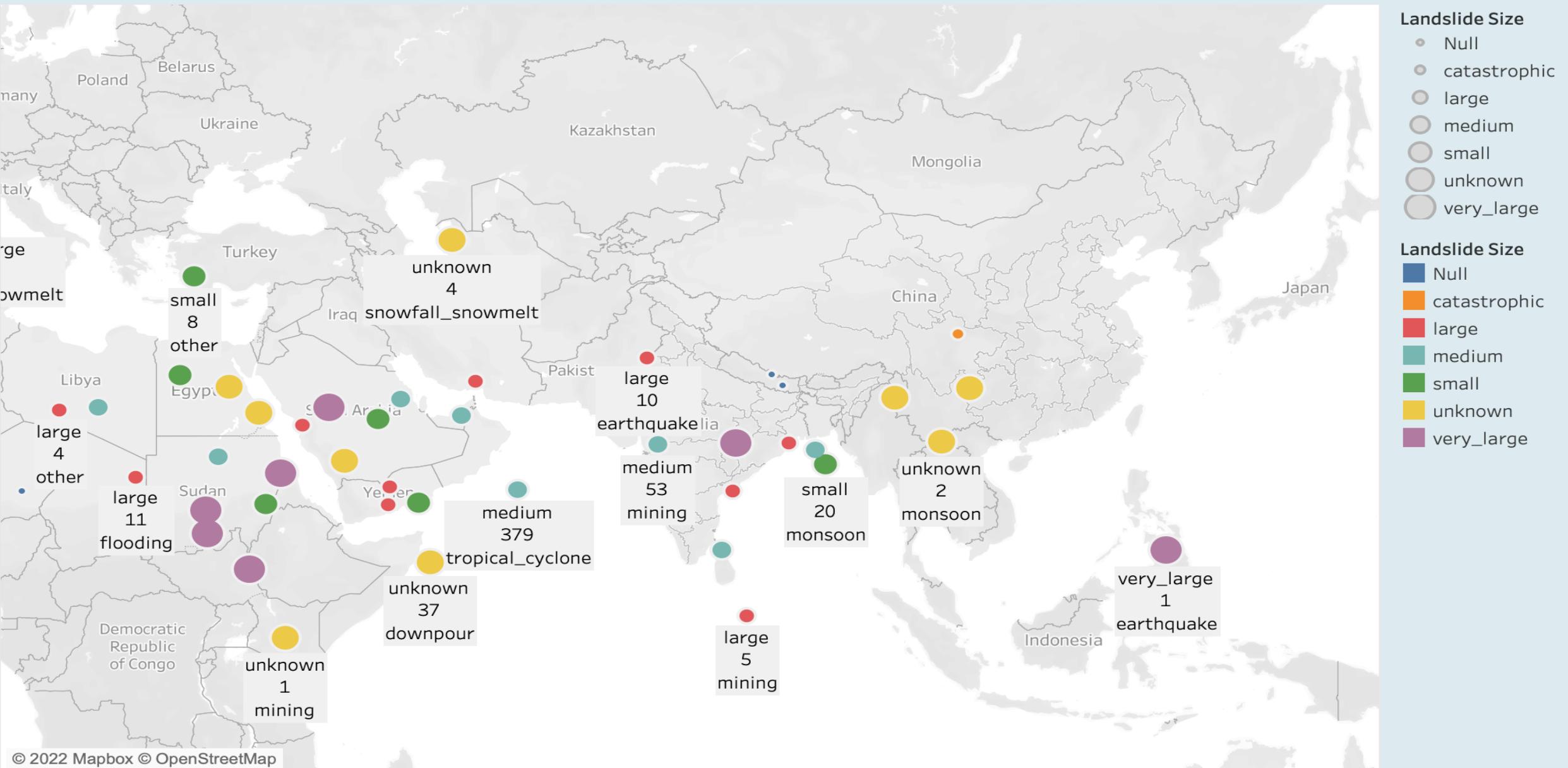
The trend of count of Global\_Landslide\_Catalog\_Export.csv for Event Date Year. Color shows sum of Fatality Count. The marks are labeled by sum of Fatality Count. The data is filtered on Country Name, which keeps 142 of 142 members.

# Landslide trigger



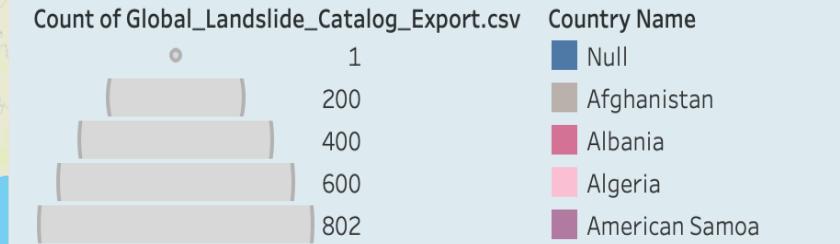
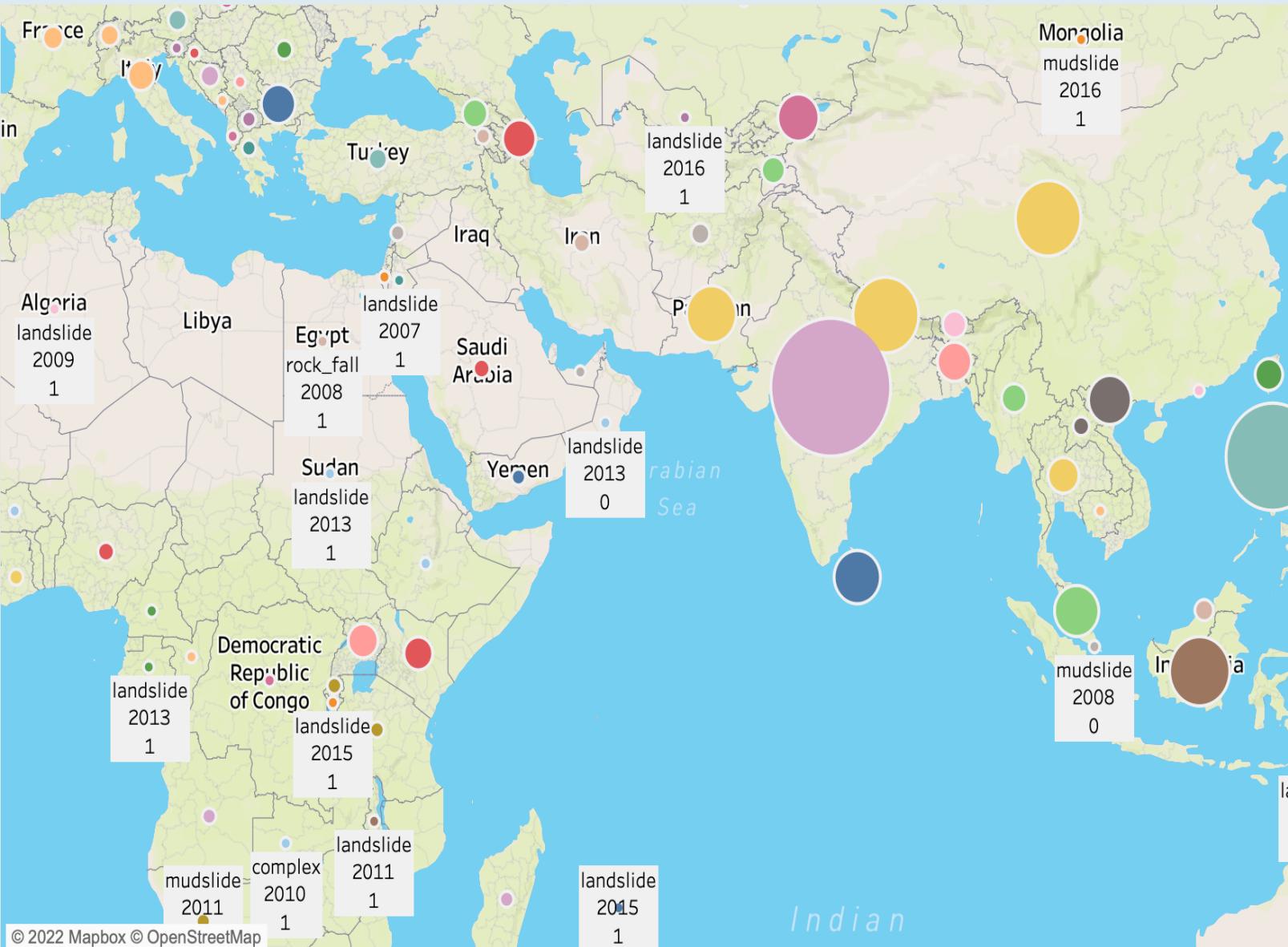
Landslide Trigger, count of Injury Count and count of Fatality Count. Color shows count of Global\_Landslide\_Catalog\_Export.csv. Size shows count of Global\_Landslide\_Catalog\_Export.csv. The marks are labeled by Landslide Trigger, count of Injury Count and count of Fatality Count. The view is filtered on Landslide Trigger, which excludes 9 members.

# Global map



Map based on average of Longitude and average of Latitude. Color shows details about Landslide Size. Size shows details about Landslide Size. The marks are labeled by Landslide Size, count of Fatality Count and Landslide Trigger. The view is filtered on Landslide Trigger, which excludes Null, no\_apparent\_trigger, unknown and Null.

# Country Map for Global Landslides



Map based on Longitude (generated) and Latitude (generated). Color shows details about Country Name. Size shows count of Global\_Landslide\_Catalog\_Export.csv. The marks are labeled by Landslide Category, Event Date Year and count of Fatality Count. Details are shown for Country Name.

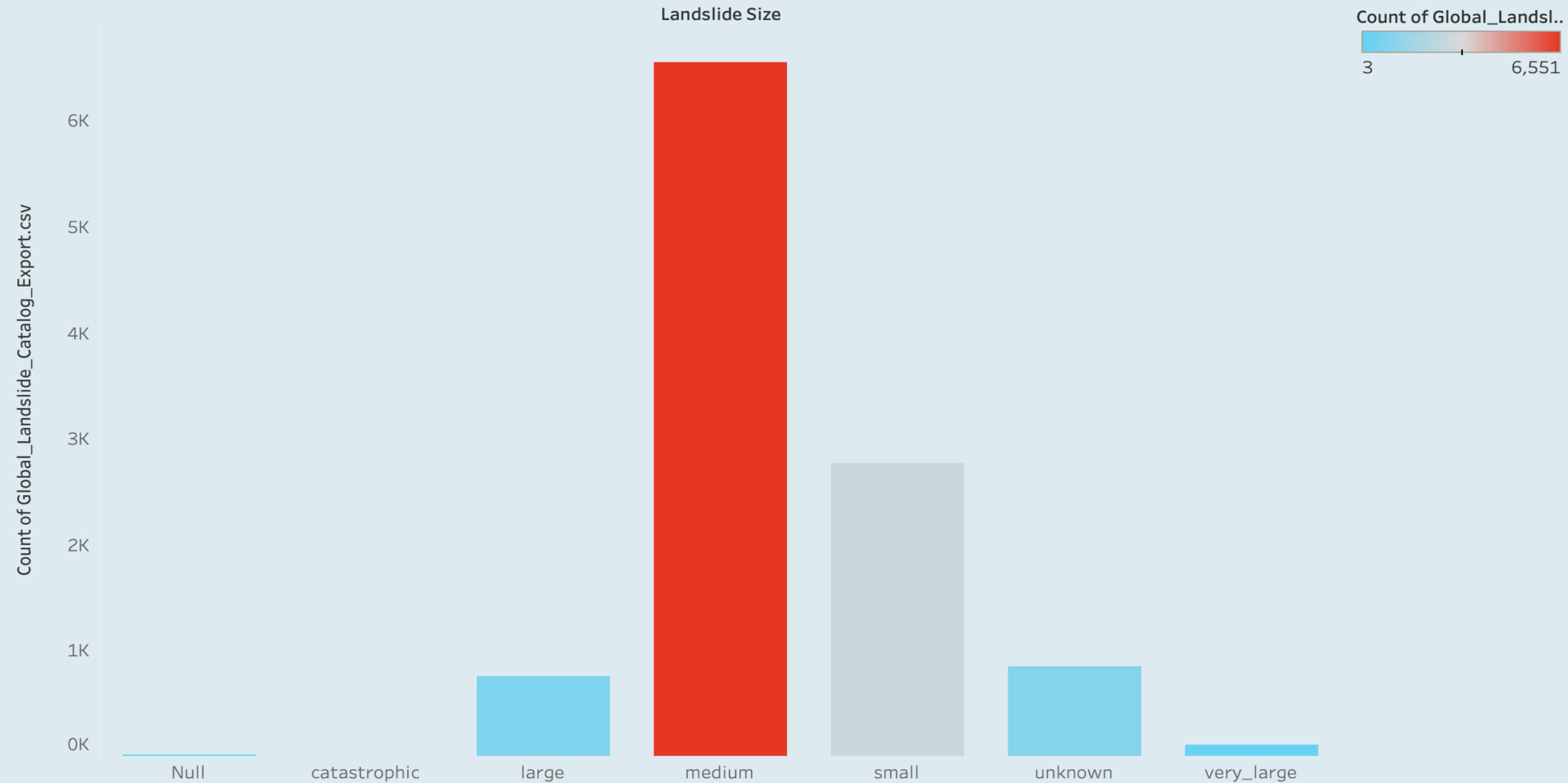
Country Name
Null
Afghanistan
Albania
Algeria
American Samoa
Angola
Argentina
Armenia
Australia
Austria
Azerbaijan
Bangladesh
Barbados
Belize
Bermuda
Bolivia
Bosnia and Herzegovina
Brazil
Brunei
Bulgaria
Burkina Faso
Burundi
Cambodia
Cameroon
Canada
Chile
China
Colombia
Costa Rica
Croatia

# Landslide Size measure names



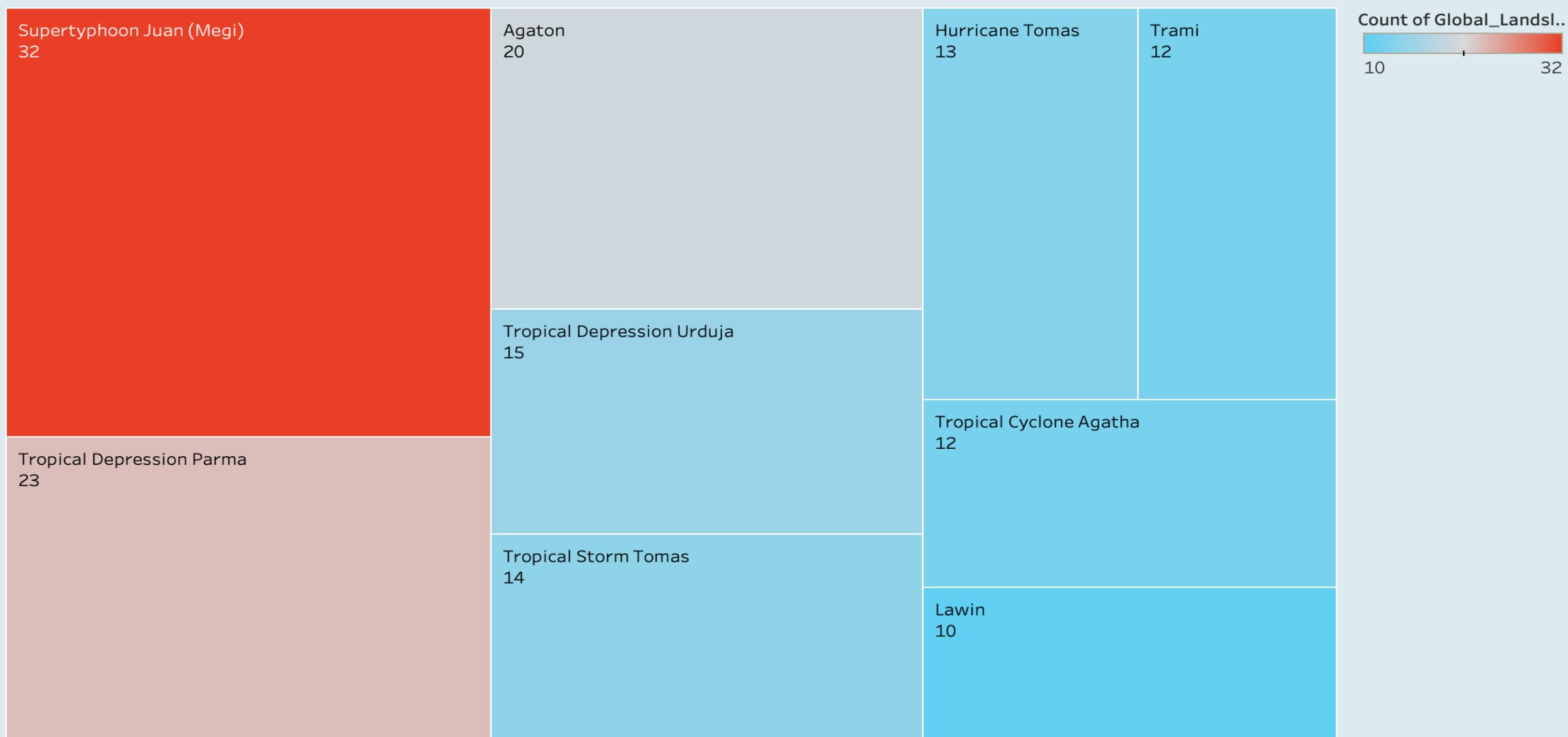
Count of Global\_Landslide\_Catalog\_Export.csv, sum of Fatality Count and sum of Injury Count. Color shows details about Landslide Size. The view is filtered on Landslide Size, which keeps catastrophic, large, medium, small and very\_large.

# Landslide Size



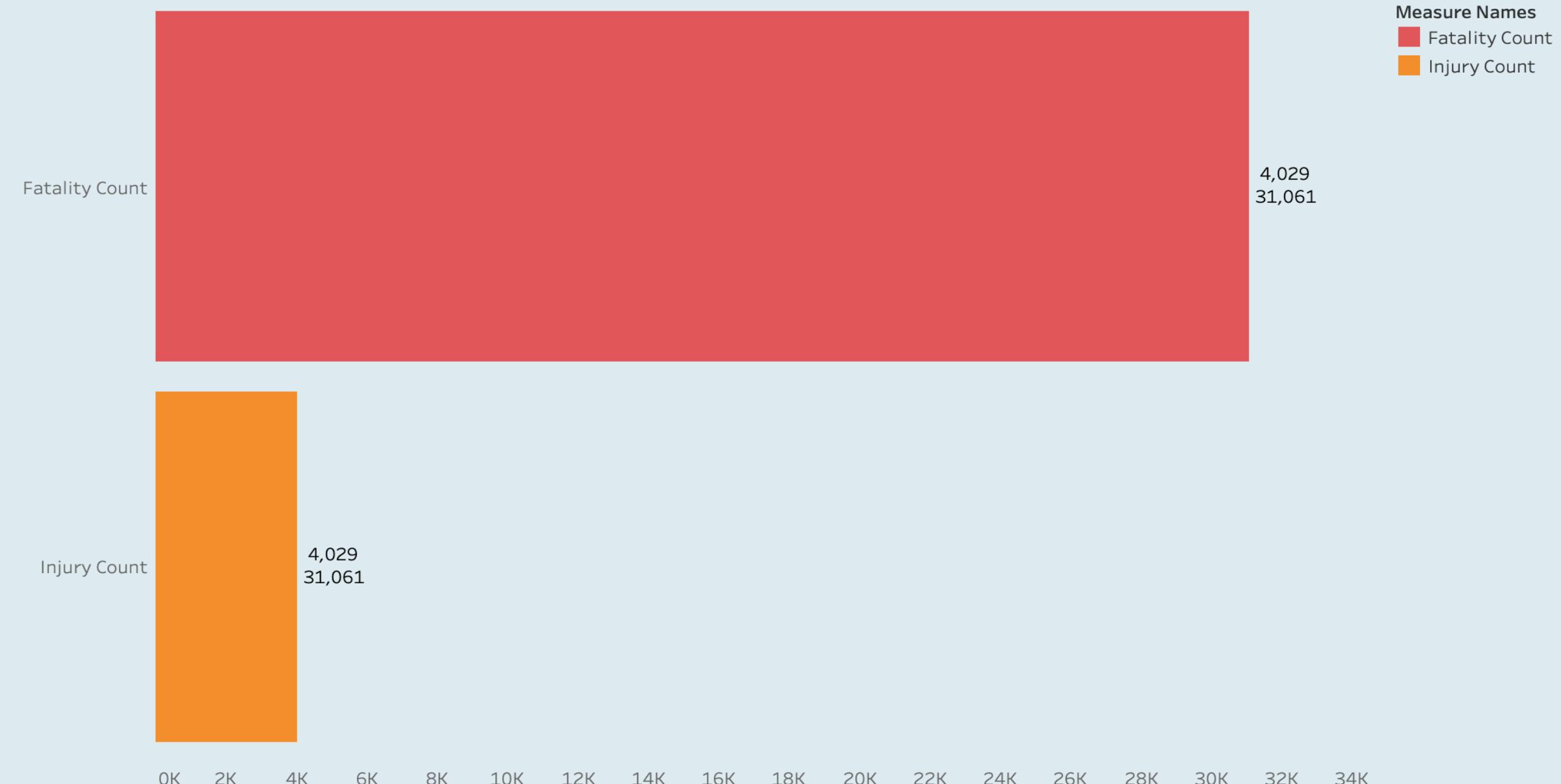
Count of Global\_Landslide\_Catalog\_Export.csv for each Landslide Size. Color shows count of Global\_Landslide\_Catalog\_Export.csv.

# Top 10 Storm Name Vs There fatalities & Injuries



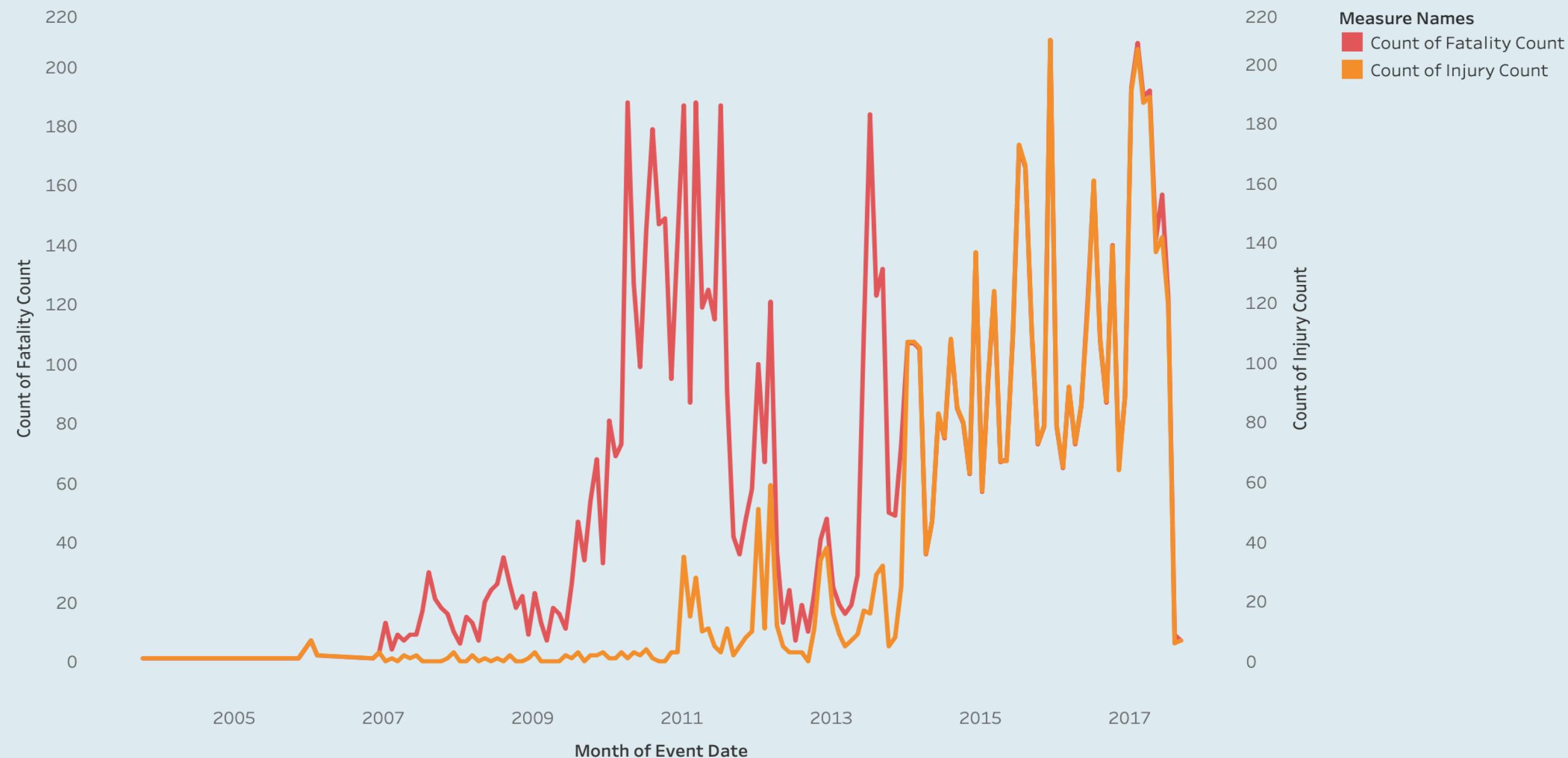
Storm Name and count of Global\_Landslide\_Catalog\_Export.csv. Color shows count of Global\_Landslide\_Catalog\_Export.csv. Size shows count of Global\_Landslide\_Catalog\_Export.csv. The marks are labeled by Storm Name and count of Global\_Landslide\_Catalog\_Export.csv. The view is filtered on Storm Name, which keeps 9 of 218 members.

# Fatality Count and Injury Count



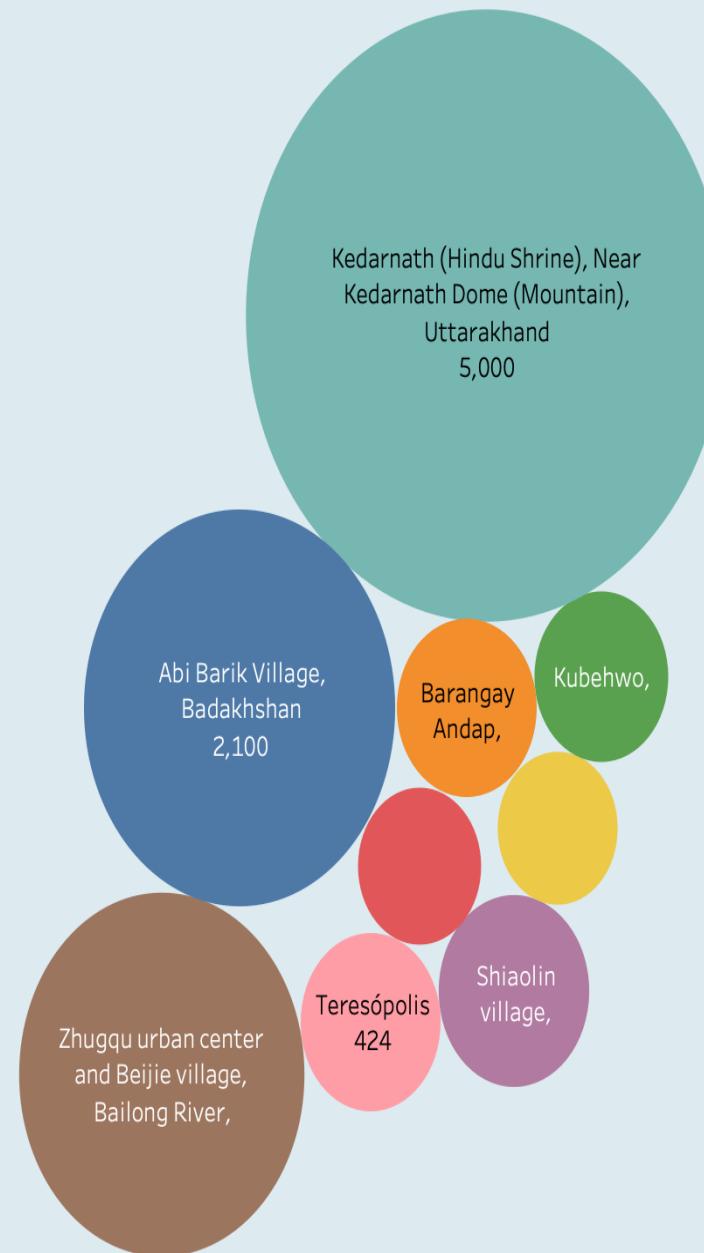
Fatality Count and Injury Count. Color shows details about Fatality Count and Injury Count. The marks are labeled by Injury Count and Fatality Count. The

# Month of event



The trends of count of Fatality Count and count of Injury Count for Event Date Month. Color shows details about count of Fatality Count and count of Injury Count. The view is filtered on Event Date Month, which ranges from October 2002 to September 2017.

# Top 9 fatality Event with Title

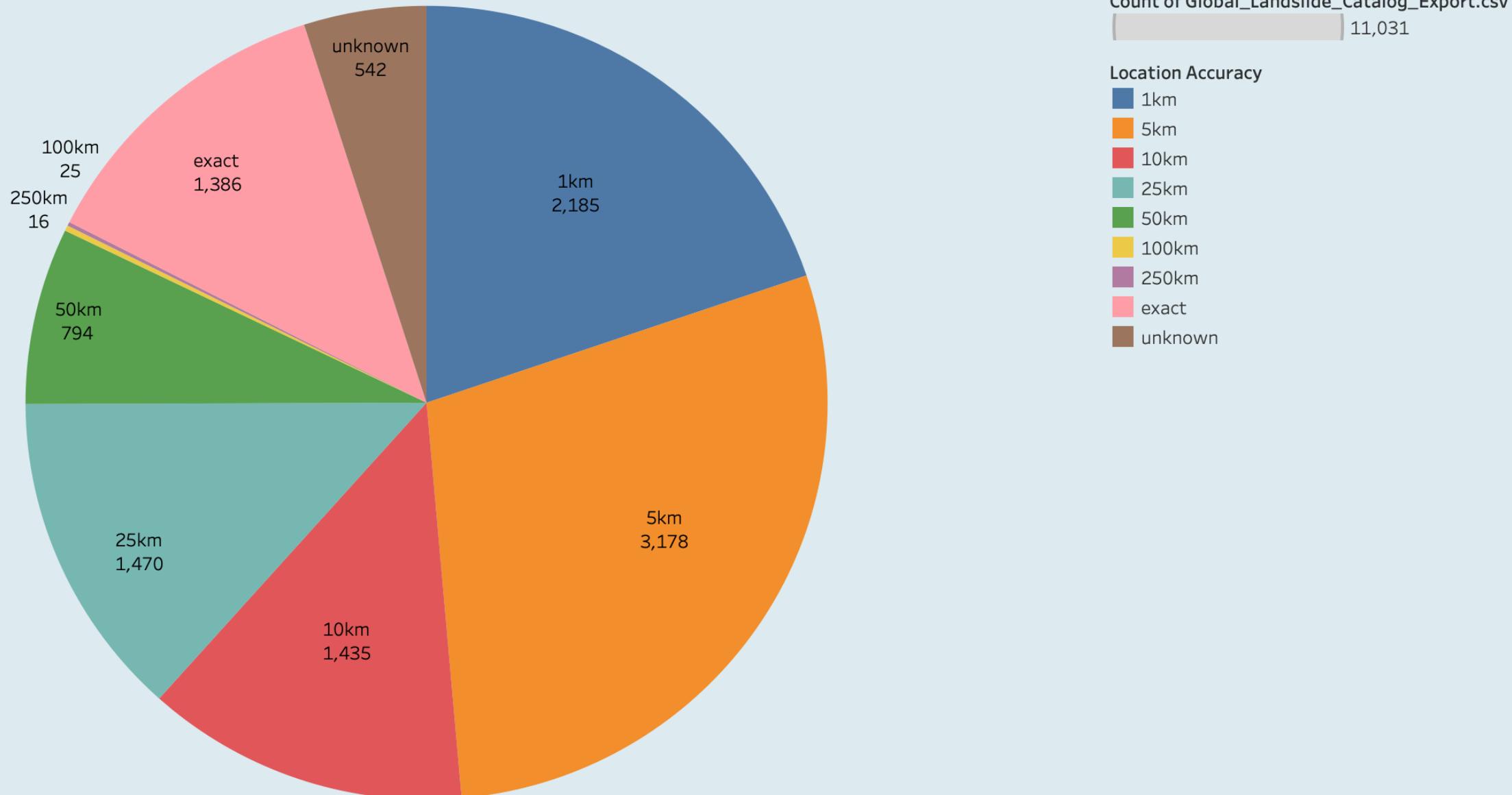


## Event Title

- Abi Barik Village, Badakhshan
- Barangay Andap, New Bataan, Compostela Valley
- Deadly Mocoa Landslide
- Kedarnath (Hindu Shrine), Near Kedarnath Dome (Mountain), Uttarakhand
- Kubehwo, Namakansa and Nametsi villages, Bukalasi Sub-County, Mount Elgon, Bududa district
- Rapid mudslide buries homes
- Shiaolin village, Kaohsiung county
- Teresópolis
- Zhugqu urban center and Beijie village, Bailong River, Zhouqu(Zhugqu)(Drugchu) County, Gannan

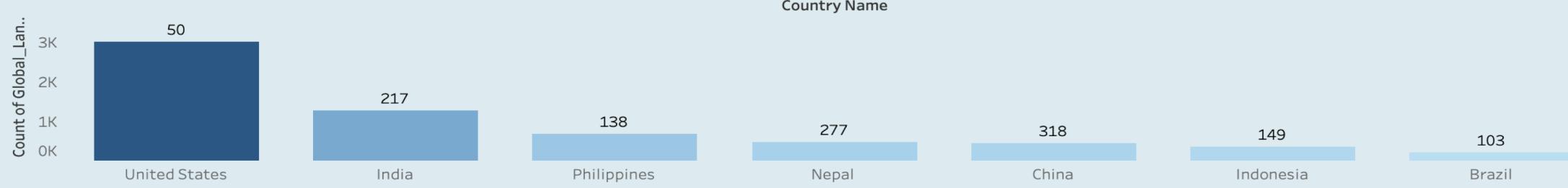
Event Title and sum of Fatality Count. Color shows details about Event Title. Size shows sum of Fatality Count. The marks are labeled by Event Title and sum of Fatality Count. The view is filtered on Event Title, which keeps 9 of 10,546 members.

# Location Accuracy

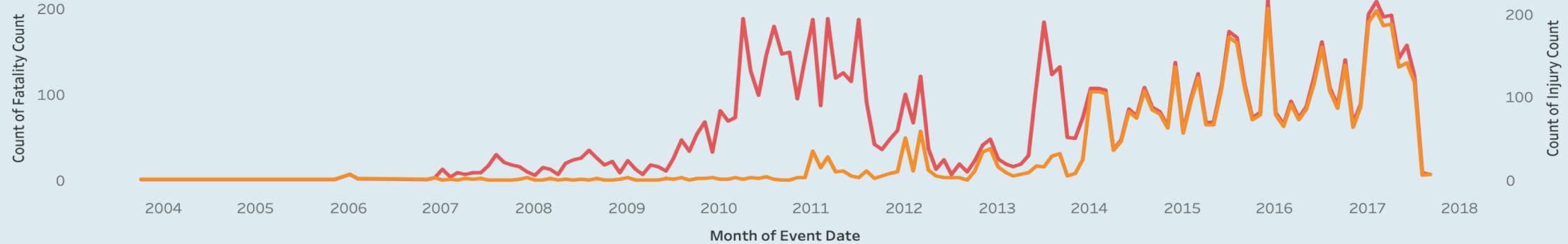


Location Accuracy and count of Global\_Landslide\_Catalog\_Export.csv. Color shows details about Location Accuracy. Size shows count of Global\_Landslide\_Catalog\_Export.csv. The marks are labeled by Location Accuracy and count of Global\_Landslide\_Catalog\_Export.csv. The view is filtered on Location Accuracy, which excludes Null.

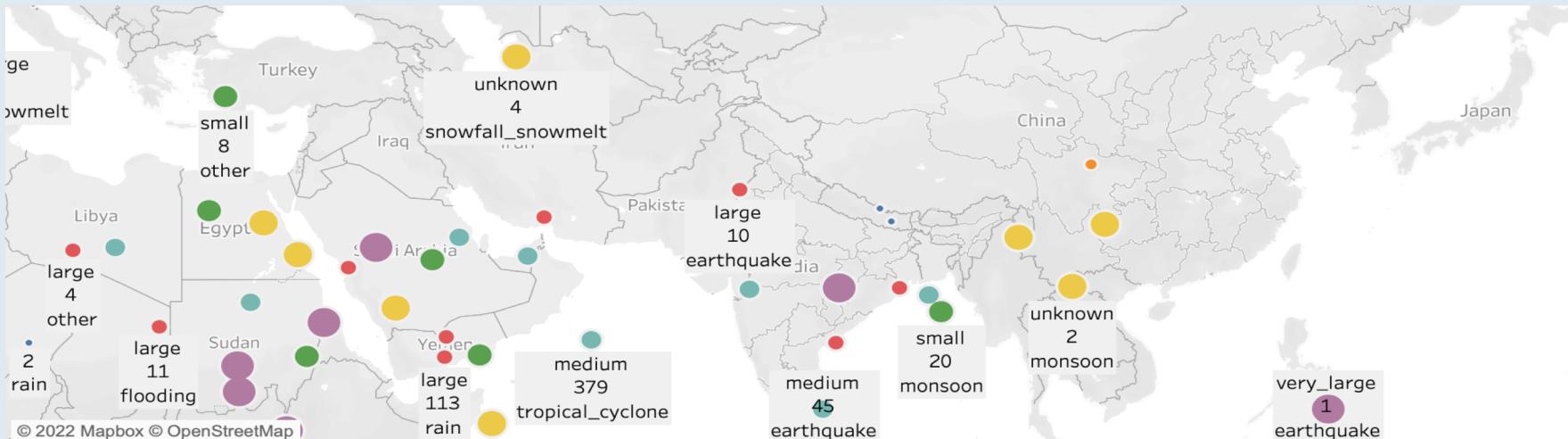
## Top 7 country landslide and injury count



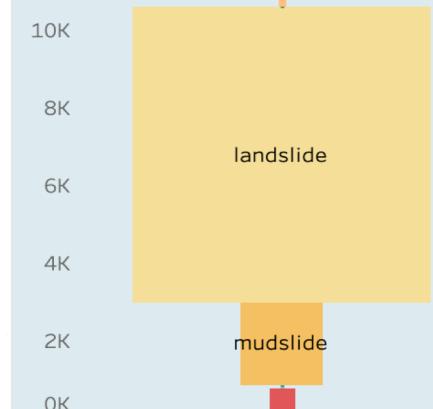
## Month of event



## Global map



## Land slide category and count



Count of Global\_Landslid..  
214 2,992

Count of Global\_Landslid..  
1  
2,000  
4,000  
6,000  
7,648

Measure Names  
Count of Fatality Cou..  
Count of Injury Count

Landslide Size  
Null  
catastrophic  
large  
medium  
small  
unknown  
very\_large

Landslide Size  
Null  
catastrophic  
large  
medium  
small  
unknown  
very\_large

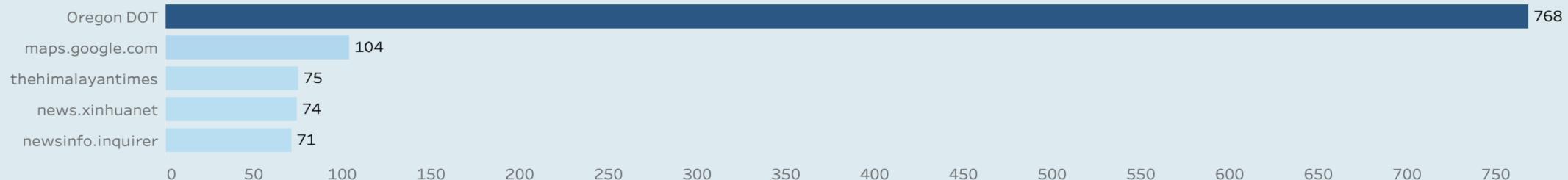


## Top 5 sources of event reported

Count of Global\_Landslid..

71 768

### Source Name



Measure Names

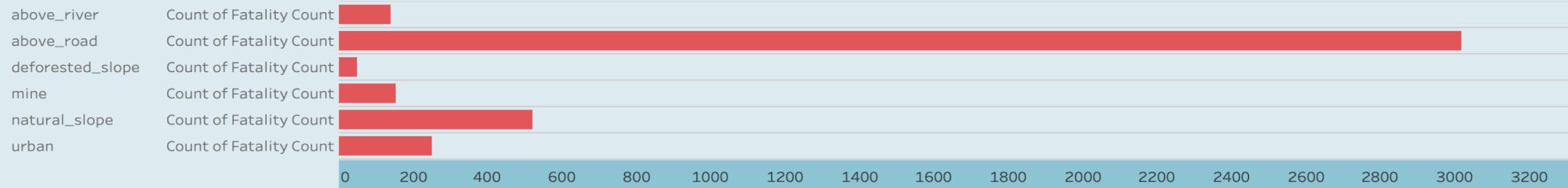
Count of Fatality Cou..

Fatality Count

102 5,152

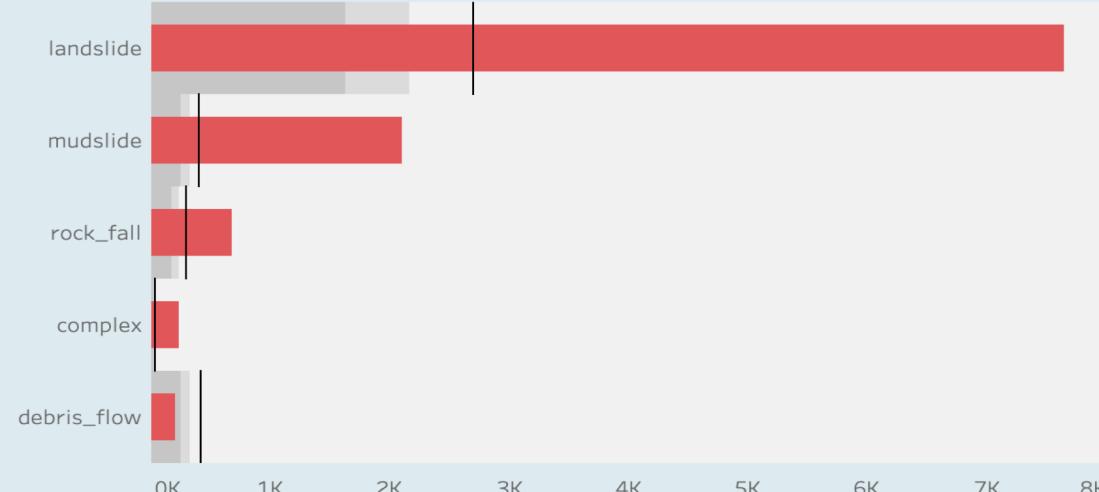
## Fatality count based on landslide type

### Landslide Setting

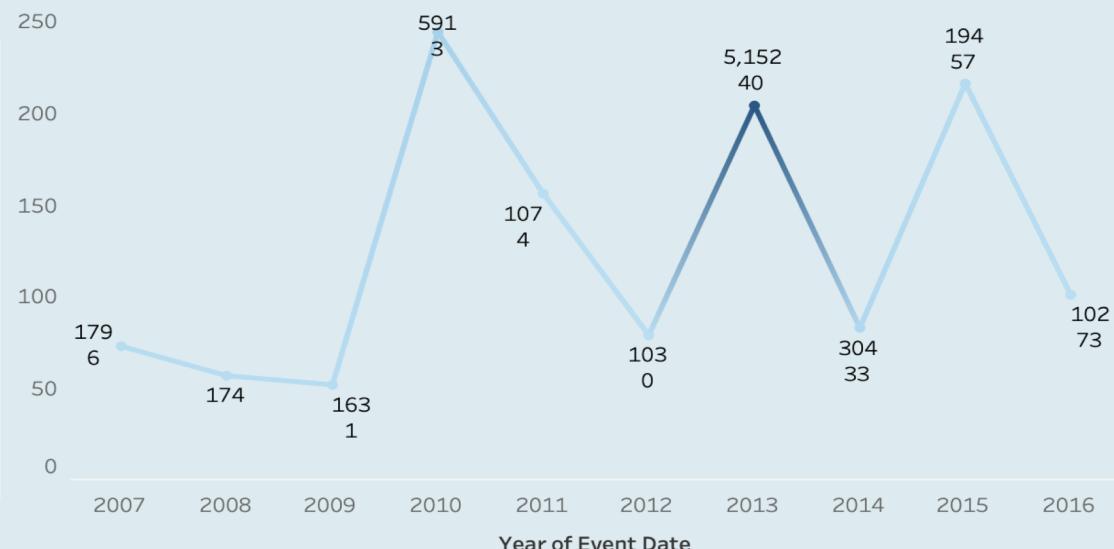


## Top 5 land slide category and injury count

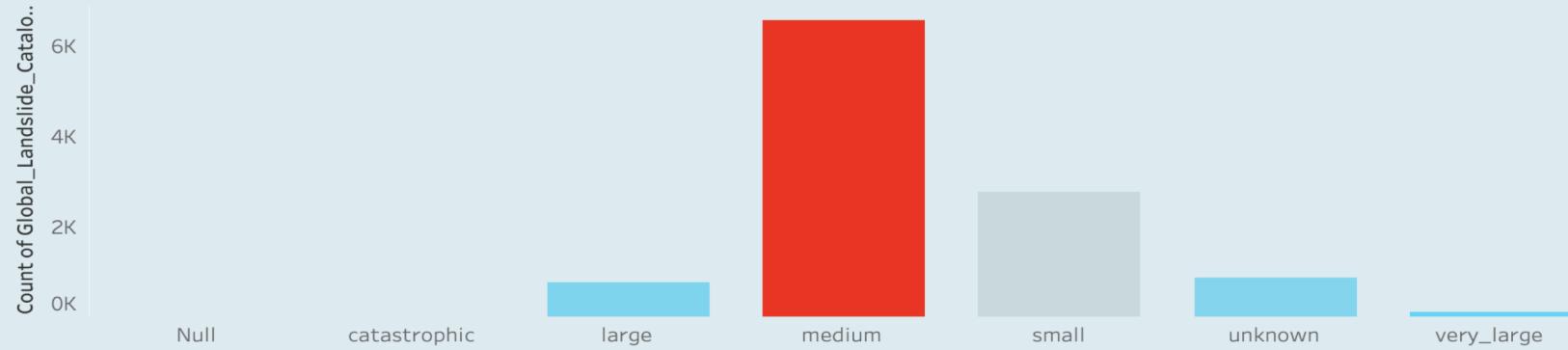
### Landslide C..



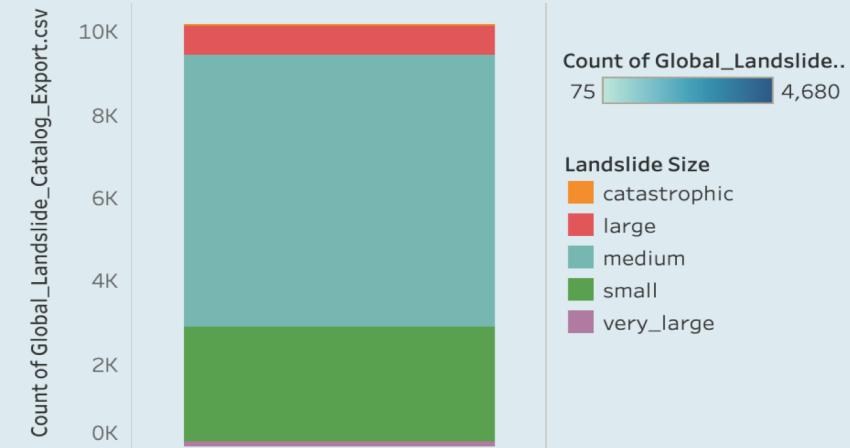
## India fatality and injury count in Time series



## Landslide Size



## Landslide Size measure names



Fatality Count

0 6,361

Count of Global\_Landslide..  
75 4,680

Landslide Size

catastrophic

large

medium

small

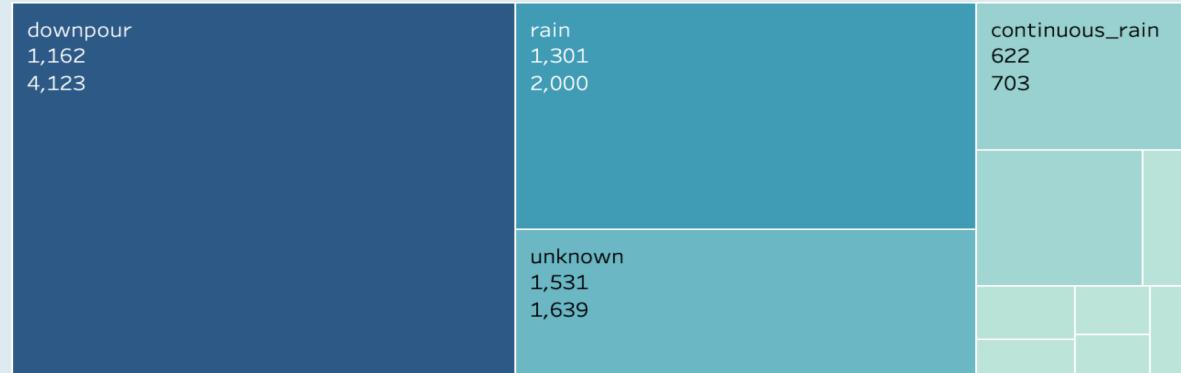
very\_large



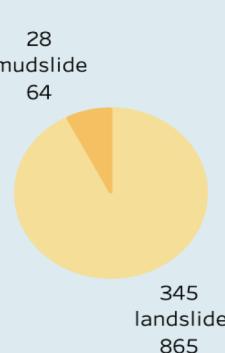
## Fatality count in Time series



## Landslide trigger



## India mudslide and landslide



## Count of Global\_Landslide\_Catalog\_Export.csv

## Fatality Count

0K

4K

8K

12K

16K

20K

24K

28K

32K

36K

40K

44K

48K

52K

56K

60K

64K

68K

Landslide Category

landslide

mudslide

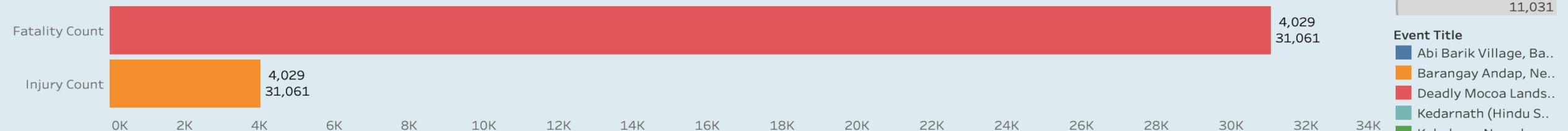
Count of Injury Count

0 373

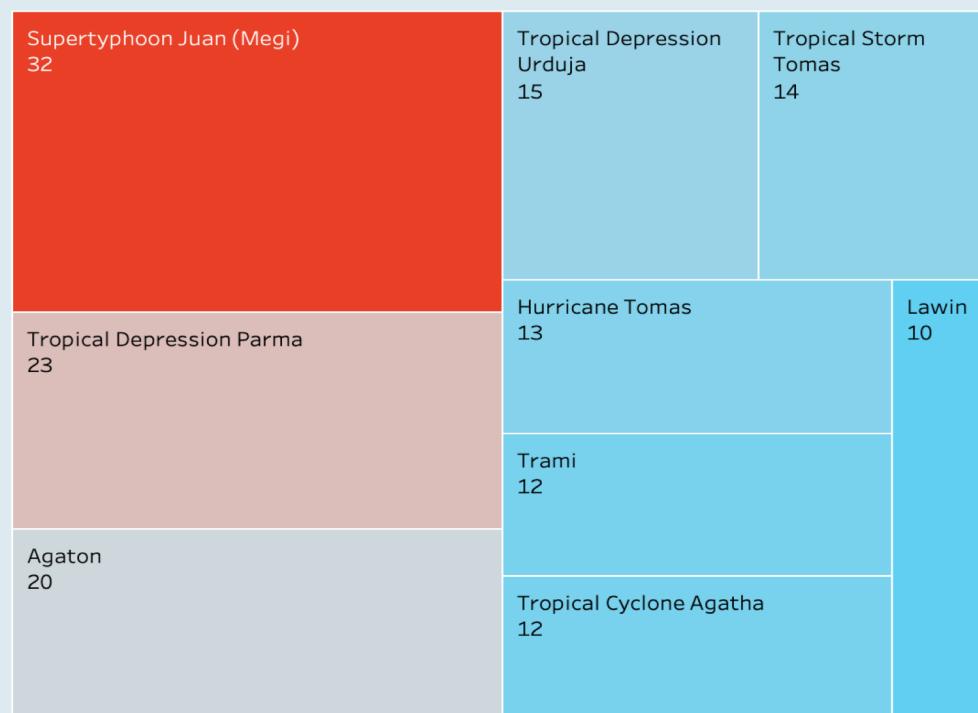
## Landslide Size



## Fatality Count and Injury Count



## Top 10 Storm Name Vs There fatalities & Injuries



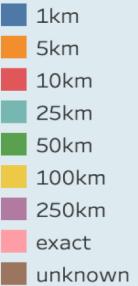
## Top 9 fatality Event with Title



## Location Accuracy



## Location Accuracy



Count of Global\_Landslides

11,031

## Event Title

- Abi Barik Village, Badakhshan
- Barangay Andap, Negros Oriental
- Deadly Mocoa Landslide, Ecuador
- Kedarnath (Hindu Shrine), Near Kedarnath Dome (Mountain), Uttarakhand
- Kubehwo, Namakan, Indonesia
- Rapid mudslide burying 100 homes in Indonesia
- Shiaolin village, Kaohsiung, Taiwan
- Terresópolis
- Zhugqu urban center and Beijie village, Bailong

## Measure Names

- Fatality Count
- Injury Count

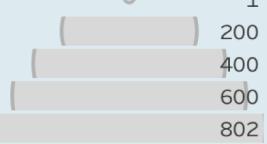
Count of Global\_Landslides

10 - 32



# Country Map for Global Landslides

Count of Global\_Landslid..



Country Name
Null
Afghanistan
Albania
Algeria
American Samoa
Angola
Argentina
Armenia
Australia
Austria
Azerbaijan
Bangladesh
Barbados
Belize
Bermuda
Bhutan
Bolivia
Bosnia and Herzegovi..
Brazil
Brunei
Bulgaria
Burkina Faso

