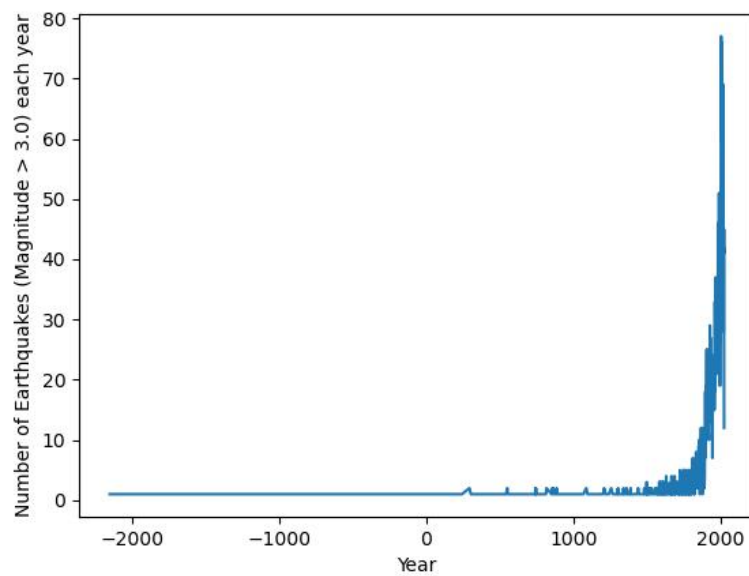


PS2 Report

1.1

Country	Deaths
58 CHINA	2075947.0
319 TURKEY	1148745.0
140 IRAN	995410.0
148 ITALY	498418.0
295 SYRIA	369224.0
119 HAITI	323478.0
23 AZERBAIJAN	317219.0
152 JAPAN	278607.0
17 ARMENIA	191890.0
146 ISRAEL	160120.0
233 PAKISTAN	145080.0
82 ECUADOR	135496.0
143 IRAQ	120200.0
323 TURKMENISTAN	117412.0
241 PERU	101461.0
248 PORTUGAL	83547.0
104 GREECE	80482.0
56 CHILE	64270.0
131 INDIA	61960.0
298 TAIWAN	57152.0

1.2



全球每年震级大于 3.0 的地震总数整体趋势呈逐年上升。

1.3

请输入国家名: CHINA

CHINA 的地震总数: 623

最大震级发生日期: 1668-07-25, 地点: CHINA: SHANDONG PROVINCE

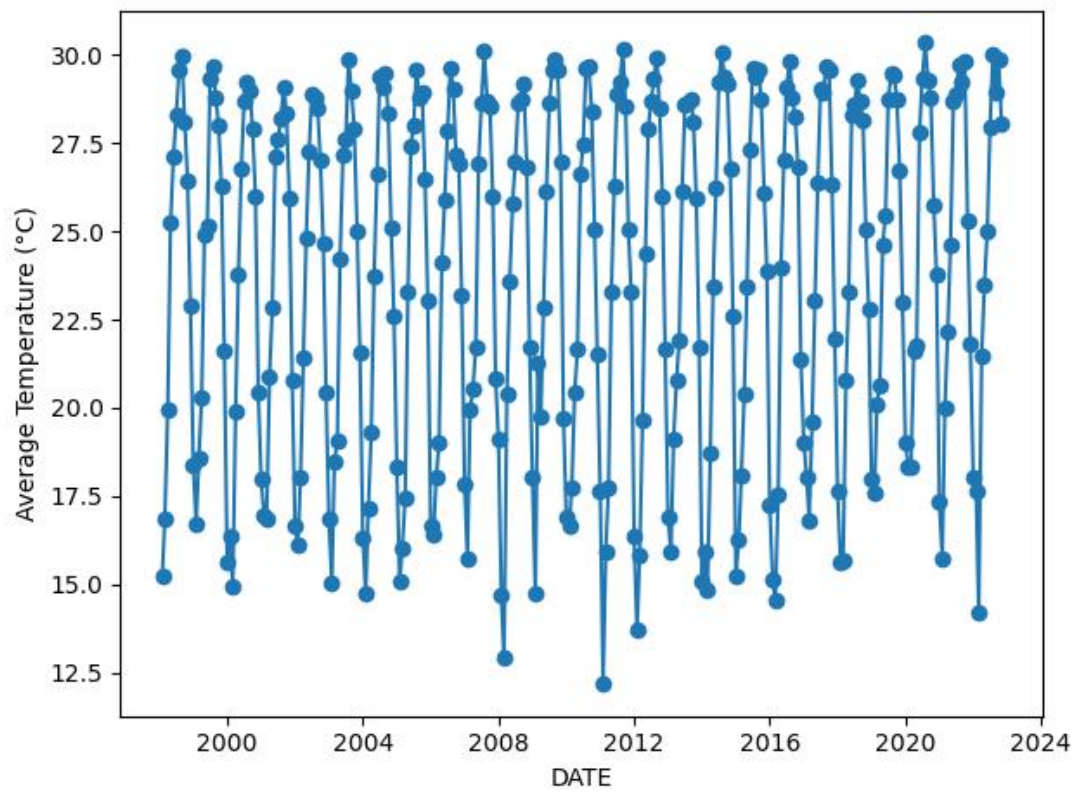
	Country	Total_Earthquakes	Max_Magnitude_Date \
17	CHINA	623	1668-07-25
86	INDONESIA	395	2004-12-26
9	IRAN	386	856-12-22
38	JAPAN	359	2011-03-11
6	ITALY	332	1915-01-13
..
196	TRINIDAD; GRENADA	1	1888-01-10
197	URUGUAY	1	None
198	TIMOR SEA	1	1891-10-05
200	BALKANS	1	None
0	NaN	0	None

	Max_Magnitude_Location
17	CHINA: SHANDONG PROVINCE
86	INDONESIA: SUMATRA: ACEH: OFF WEST COAST
9	IRAN: DAMGHAN, QUMIS
38	JAPAN: HONSHU
6	ITALY: MARSICA, AVEZZANO, ABRUZZI
..	...
196	TRINIDAD; GRENADA: ST GEORGE'S
197	None
198	TIMOR SEA
200	None
0	None

[351 rows x 4 columns]

2.0

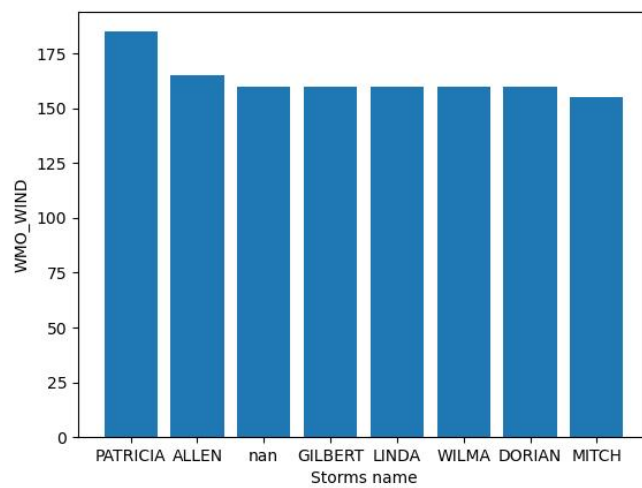
过滤：观察数据中的 TMP 列，格式为+XXXX,Y(Y 仅含 1, 2, 5, 9, 不含字母)，根据用户指南，保留 1 和 5 的有效值，其余值舍去。



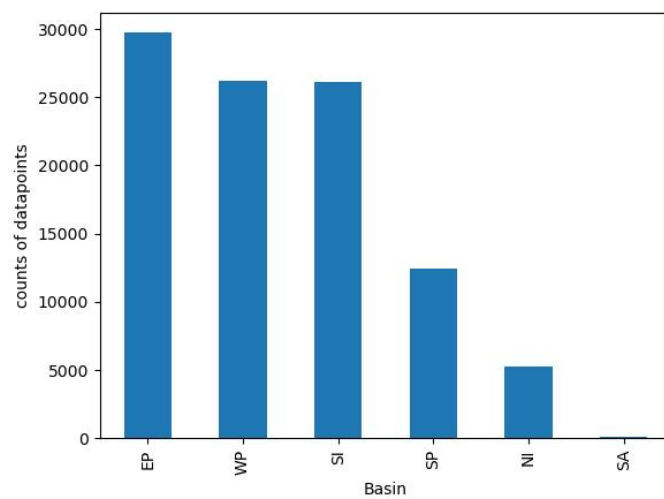
3.1

	NAME	WMO_WIND
665954	PATRICIA	185.0
427636	ALLEN	165.0
178209	NaN	160.0
482074	GILBERT	160.0
552459	LINDA	160.0
605746	WILMA	160.0
689332	DORIAN	160.0
560437	MITCH	155.0
604981	RITA	155.0
629194	RICK	155.0

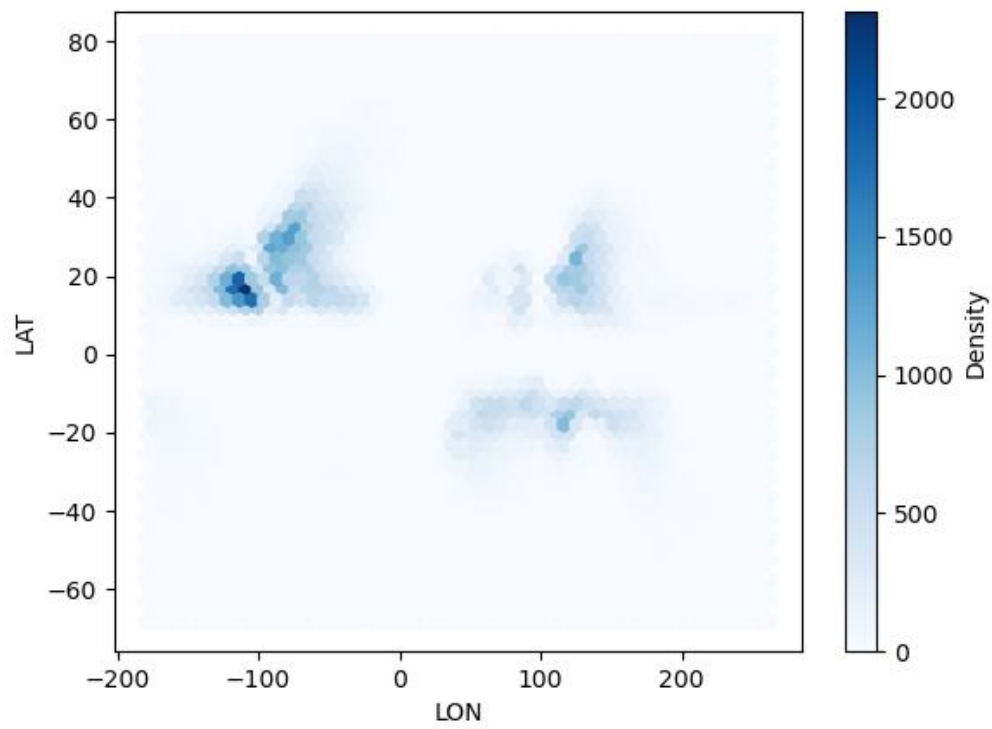
3.2



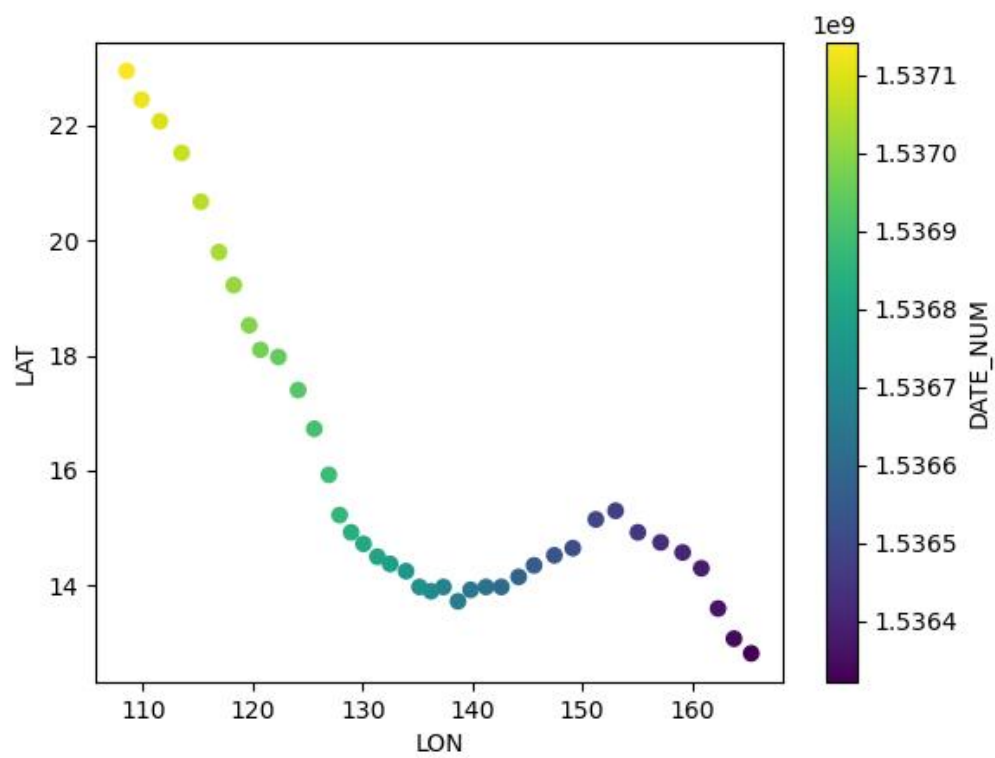
3.3



3.4



3.5

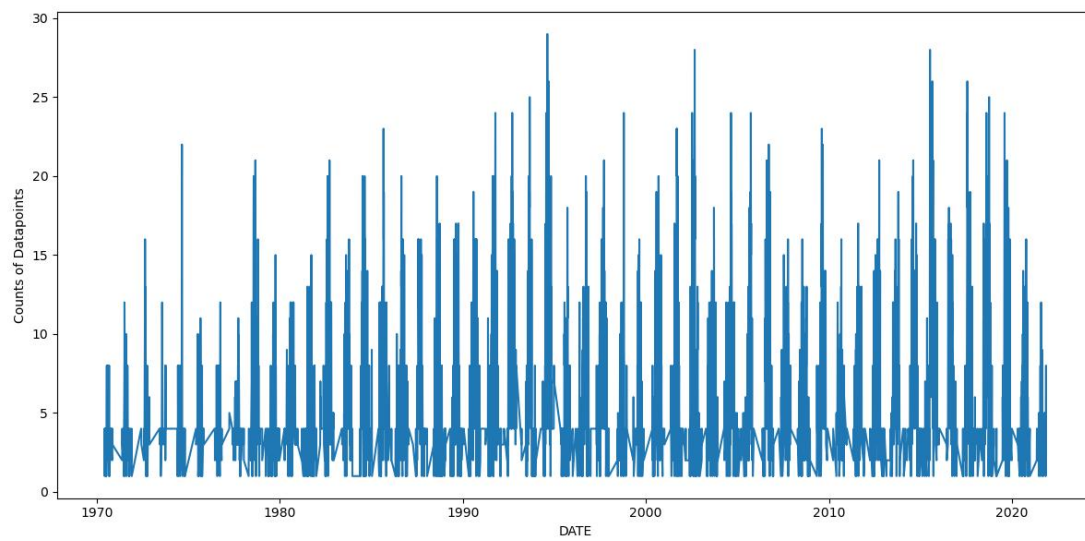


3.6

SID	SEASON	NUMBER	BASIN	SUBBASIN	NAME	\	
351439	1970	151N11261	1970	46	EP	MM	ADELE
351441	1970	151N11261	1970	46	EP	MM	ADELE
351443	1970	151N11261	1970	46	EP	MM	ADELE
351445	1970	151N11261	1970	46	EP	MM	ADELE
351447	1970	151N11261	1970	46	EP	MM	ADELE
...
703054	2021	1311N13248	2021	40	EP	MM	SANDRA
703056	2021	1311N13248	2021	40	EP	MM	SANDRA
703058	2021	1311N13248	2021	40	EP	MM	SANDRA
703060	2021	1311N13248	2021	40	EP	MM	SANDRA
703062	2021	1311N13248	2021	40	EP	MM	SANDRA
	ISO_TIME	NATURE	LAT	LON	WMO_WIND	WMO_PRES	\
351439	1970-05-30 12:00:00	TS	11.1000	-98.600	45.0		
351441	1970-05-30 18:00:00	TS	11.0906	-99.301	45.0		
351443	1970-05-31 00:00:00	TS	11.0000	-99.900	45.0		
351445	1970-05-31 06:00:00	TS	10.9084	-100.390	45.0		
351447	1970-05-31 12:00:00	TS	10.9000	-100.900	45.0		
...
703054	2021-11-09 00:00:00	TS	15.1000	-118.200	30.0	1008	
703056	2021-11-09 06:00:00	TS	15.0000	-119.100	25.0	1009	
703058	2021-11-09 12:00:00	TS	14.7000	-120.100	25.0	1010	
703060	2021-11-09 18:00:00	DS	14.4000	-121.500	25.0	1010	
703062	2021-11-10 00:00:00	DS	14.1000	-123.000	25.0	1010	
	WMO_AGENCY	TRACK_TYPE	DIST2LAND	LANDFALL	IFLAG		
351439	hurdat_epa	main	548	548	O_____	OO____	
351441	hurdat_epa	main	572	572	O_____	OP____	
351443	hurdat_epa	main	604	604	O_____	OO____	
351445	hurdat_epa	main	635	635	O_____	OP____	
351447	hurdat_epa	main	653	653	O_____	OO____	
...
703054	hurdat_epa	main	1225	1225	O_____		
703056	hurdat_epa	main	1301	1301	O_____		
703058	hurdat_epa	main	1396	1396	O_____		
703060	hurdat_epa	main	1514	1514	O_____		
703062	hurdat_epa	main	1645		O_____		

[52023 rows x 17 columns]

3.7



3.8

	SEASON	NUMBER	LAT	LON	WMO_WIND	DIST2LAND \
DOY						
1	1997.277778	115.611111	9.615478	133.468500	38.055556	670.277778
2	1994.600000	120.666667	9.616363	134.404467	43.666667	846.466667
3	2004.777778	104.555556	10.604418	129.143944	48.333333	849.055556
4	2000.307692	85.769231	10.918687	133.876462	48.461538	1064.923077
5	1993.800000	55.000000	9.365608	136.213800	51.000000	1084.400000
..
362	1998.968750	106.625000	10.479446	136.362250	45.937500	876.906250
363	1997.760000	109.040000	10.466783	142.281120	48.400000	1043.880000
364	1995.636364	111.545455	11.533117	145.179773	43.636364	1216.863636
365	1994.529412	114.235294	8.967168	143.017941	39.117647	803.235294
366	2000.000000	113.000000	13.425000	129.112500	46.250000	421.000000

3.9

Climatology

3.10

4.1

因我的数据中不包含时间列，因此增设一列 DATE 输入 1300-2024 的值视为时间变化

```
      DATE  X/Longitude  Y/Latitude  Z/Altitude  Error(m)  X_error  Y_error  \
0      1    118.578926   32.057368     145.30   0.343380 -0.164904 -0.146474
1      2    118.578928   32.057367     145.26   0.347774 -0.146957 -0.166667
2      3    118.578985   32.057355     145.10   0.297936 -0.218707 -0.116085
3      4    118.579100   32.057338     144.98   0.227465 -0.216951 -0.062851
4      5    118.579208   32.057322     145.34   0.391419 -0.280277 -0.043447
```

```
      Z_error
0 -0.263176
1 -0.267530
2 -0.165702
3  0.026871
4  0.269751
```

```
<class 'pandas.core.frame.DataFrame'>
```

```
RangeIndex: 725 entries, 0 to 724
```

```
Data columns (total 8 columns):
```

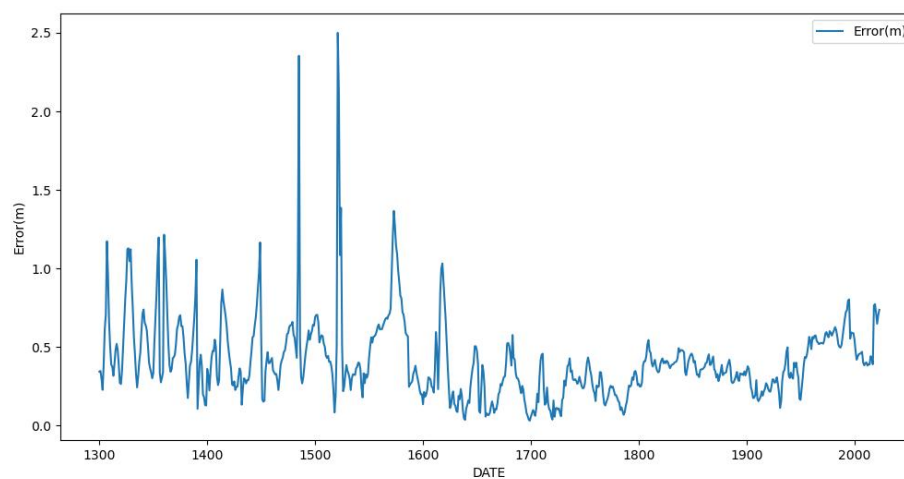
#	Column	Non-Null Count	Dtype
0	DATE	725 non-null	int64
1	X/Longitude	724 non-null	float64
2	Y/Latitude	724 non-null	float64
3	Z/Altitude	724 non-null	float64
4	Error(m)	725 non-null	float64
5	X_error	725 non-null	float64
6	Y_error	725 non-null	float64
7	Z_error	725 non-null	float64

```
dtypes: float64(7), int64(1)
```

```
memory usage: 45.4 KB
```

```
None
```

4.2



4.3

mean:0.41337951232596687

median:0.3729797005

var:0.06490550678160738

std:0.2547655918321926

max:2.499659061

min:0.031242866