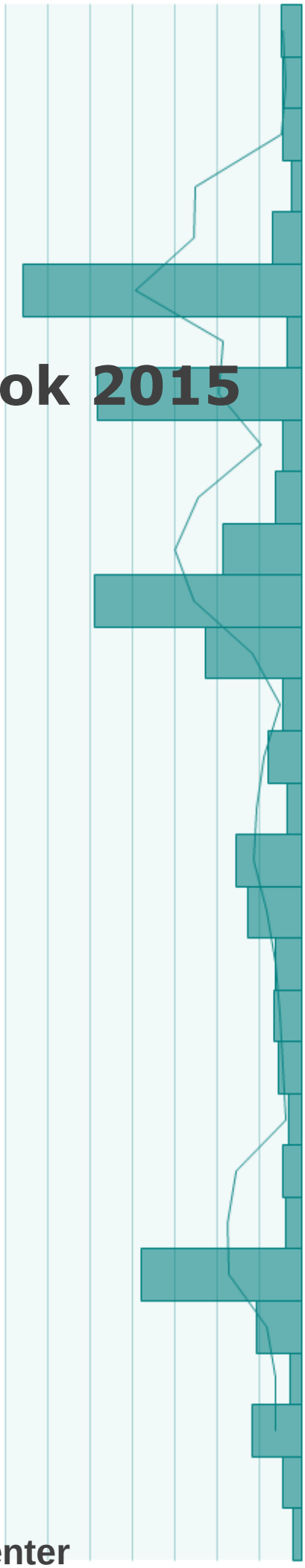
Natural Disaster Data Book 2015
An Analytical Overview



Asian Disaster Reduction Center

Overview

Asian Disaster Reduction Center (ADRC) Natural Disasters Data Book 2015 provides statistical perspectives in figures and tables for 2015 as well as for the period 1986-2015 based on data obtained by EM-DAT.

According to EM-DAT, 394 natural disasters occurred in 2015 worldwide, killing 23,834 people and affecting over 110 million people. The estimated amount of economic damage came close to US$72.7 billion.

In 2015, the earthquake that hit Nepal in April and May brought about serious damages to the country. The disaster killed nearly 9,000 people and caused largest economic damage worth US$5.1 billion, which ranked the highest.

On the other hand, the drought in North Korea has largest 18.0 million people in the world in 2015.

By region, Asia is ranked the highest in all the indices of disaster occurrences, the number of people killed and affected and economic damage. Asia accounts for 44.9 percent in occurrences; number of people killed, 68.7 percent; number of affected people, 61.4 percent; and amount of economic damage, 47.4 percent.

Worldwide disaster trends in composition of indices and top shares of impacts vary by disaster type. For instance, flood made up the largest share of 40.6 percent of all disaster occurrences; earthquake, 40.1 percent of number of people killed; drought, 50.1 percent of affected people; and storm, 45.3 percent of total amount of economic damage.

[Notes]

Source:
All disaster data are based on D. Guha-Sapir, R. Below, Ph. Hoyois - EM-DAT: International Disaster Database – www.emdat.be – Université Catholique de Louvain – Brussels – Belgium. Data set was obtained on 19 December 2016, unless otherwise stated.

EM-DAT Criteria:
For a disaster to be entered into the database, at least one of the following criteria must be fulfilled:

- Ten (10) or more people reported killed
- Hundred (100) or more people reported affected
- Declaration of a state of emergency
- Call for international assistance.

In this Data Book 2015 “killed people” are defined as persons confirmed as dead and persons missing and presumed dead. “Affected people” are the sum of injured, homeless, and affected in EM-DAT. EM-DAT defines affected people as people requiring immediate assistance during the period of emergency; it can also include displaced or evacuated people.

Disaster Terms:
“Animal accident” is that human encounters with dangerous or exotic animals in both urban and rural developments.
“Drought” includes an extended period of unusually low precipitation that produces a shortage of water for people, animals and plants.
“Earthquake” includes ground shaking and tsunami.
“Epidemic” includes bacterial and viral infectious diseases.
“Extreme Temperature” includes heat wave, cold wave, and extreme winter conditions.
“Flood” includes general flood, and flash flood.
“Landslide” includes avalanche, debris, and rockfall.
“Storm” includes local storm, tropical cyclone, and winter storm.
“Volcanic activity” means volcanic eruption.
“Wildfire” includes bush/brush fire, forest fire, and scrub/grassland fire.

Disclaimer:
Country and region classification used in this databook is based on EM-DAT criteria.

1. IMPACTS OF NATURAL DISASTERS BY REGION, 2015

This section shows the impacts of natural disasters in four indices, occurrence, number of deaths, number of affected people and economic damage that were reported across the world in 2015. As shown in Figure 1, Asia ranks the first among all regions in the categories of disaster occurrence, the number of killed people, the number of affected people and economic damage, accounting for 44.9 percent, 68.7 percent, 61.4 percent and 47.4 percent , respectively.

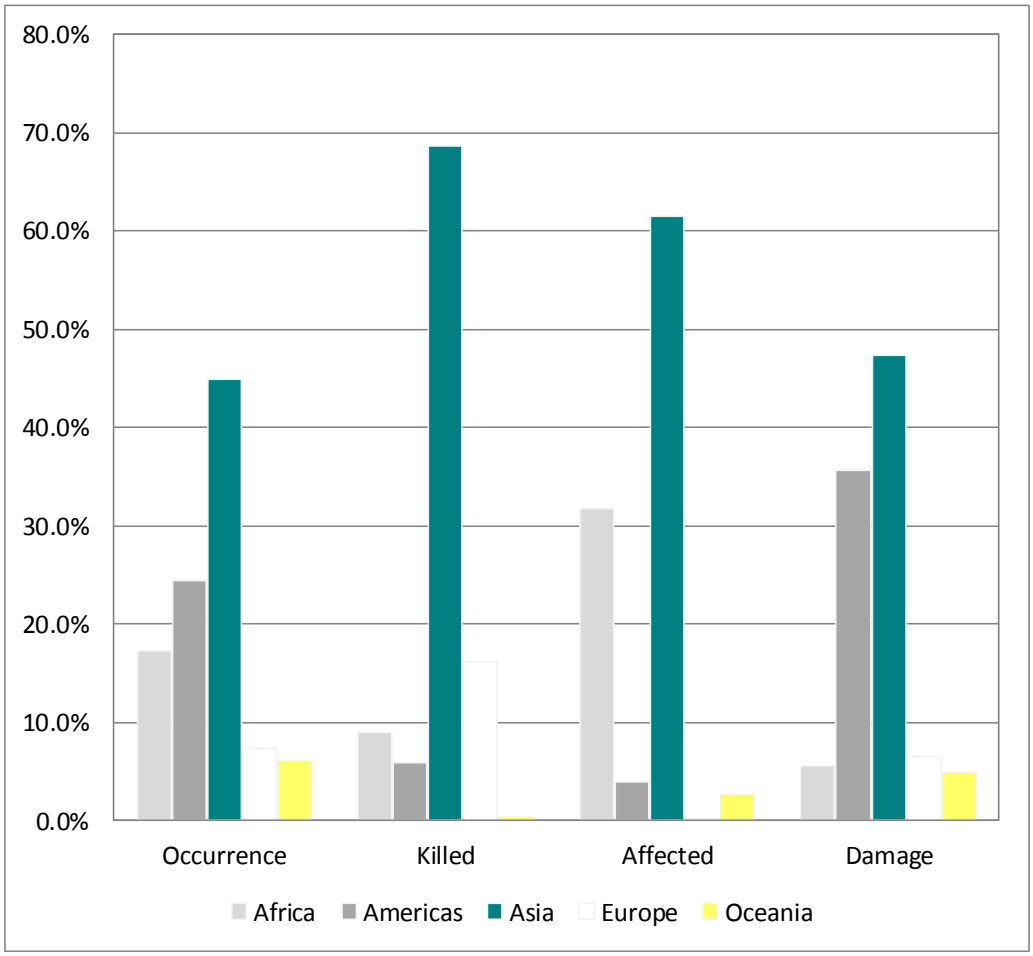


Figure 1: Impacts of Natural Disasters by Region, 2015

Table 1: Impacts of Natural Disasters by Region, 2015

Region	*Impact*							
	Occurrence	(share in %)	Killed	(share in %)	Affected	(share in %)	Damage (million US$)	(share in %)
Africa	68	(17.3%)	2,132	(8.9%)	35,271,645	(31.8%)	4,062	(5.6%)
Americas	96	(24.4%)	1,407	(5.9%)	4,365,047	(3.9%)	25,984	(35.7%)
Asia	177	(44.9%)	16,373	(68.7%)	68,141,474	(61.4%)	34,493	(47.4%)
Europe	29	(7.4%)	3,856	(16.2%)	224,274	(0.2%)	4,697	(6.5%)
Oceania	24	(6.1%)	66	(0.3%)	2,899,323	(2.6%)	3,523	(4.8%)
Total	394	(100.0%)	23,834	(100.0%)	110,901,763	(100.0%)	72,759	(100.0%)

Source:
EM-DAT: The OFDA/CRED International Disaster Database – www.emdat.be,
Université Catholique de Louvain, Brussels (Belgium)

2. IMPACTS OF NATURAL DISASTERS BY DISASTER TYPE, 2015

Regarding the breakdown of impacts of disasters by disaster type, different disaster types tops at each index. In occurrence, flood tops at 40.6 percent while in the number of killed, the number of affected and economic damage, earthquake, drought and storm have the largest shares, 40.1 percent, 50.1 percent and 45.3 percent, respectively.

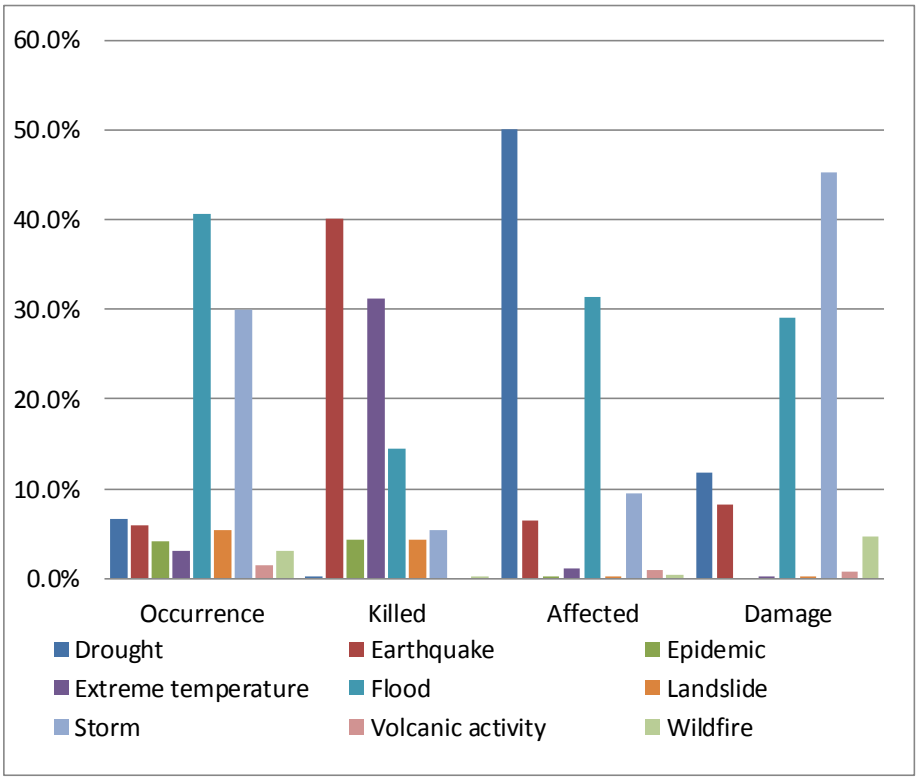


Figure 2: Impacts of Natural Disasters by Disaster Type, 2015

Table 2: Impacts of Natural Disasters by Disaster Type, 2015

Disaster Type	*Impact*							
	Occurrence	(share in %)	Killed	(share in %)	Affected	(share in %)	Damage (US$ million)	(share in %)
Drought	26	(6.6%)	35	(0.1%)	55,549,915	(50.1%)	8,565	(11.8%)
Earthquake	23	(5.8%)	9,550	(40.1%)	7,228,686	(6.5%)	6,028	(8.3%)
Epidemic	16	(4.1%)	1,012	(4.2%)	67,821	(0.1%)		
Extreme temperature	12	(3.0%)	7,425	(31.2%)	1,260,553	(1.1%)	94	(0.1%)
Flood	160	(40.6%)	3,456	(14.5%)	34,856,719	(31.4%)	21,078	(29.0%)
Landslide	21	(5.3%)	1,019	(4.3%)	50,156	(0.0%)	8	(0.0%)
Storm	118	(29.9%)	1,270	(5.3%)	10,432,128	(9.4%)	32,948	(45.3%)
Volcanic activity	6	(1.5%)			956,092	(0.9%)	600	(0.8%)
Wildfire	12	(3.0%)	67	(0.3%)	499,693	(0.5%)	3,438	(4.7%)
Total	394	(100.0%)	23,834	(100.0%)	110,901,763	(100.0%)	72,759	(100.0%)

Source:
EM-DAT: The OFDA/CRED International Disaster Database – www.emdat.be,
Université Catholique de Louvain, Brussels (Belgium)

3. IMPACTS OF NATURAL DISASTERS IN ASIA BY DISASTER TYPE, 2015

Regarding the overview of impacts of disasters sorted by disaster type in Asia, Figure 3 shows a similar pattern to Figure 2. However, in number of the affected people, flood has the largest shares. In 2015, there is no record of volcanic activity in Asia.

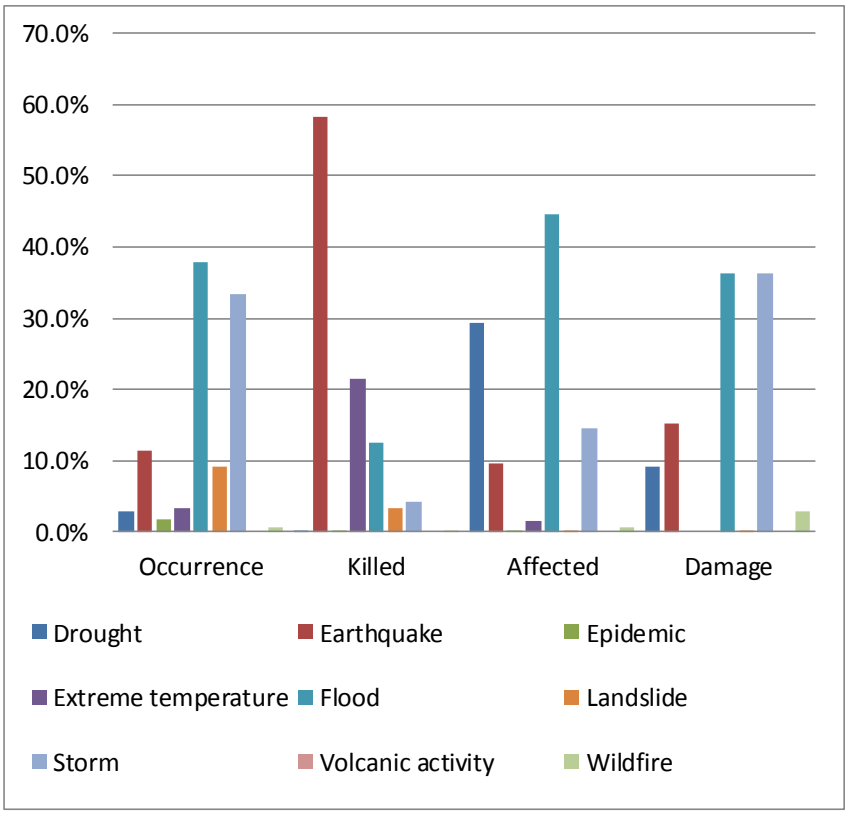


Figure 3: Impacts of Natural Disasters by Disaster Type in Asia, 2015

Table 3: Impacts of Natural Disasters by Disaster Type in Asia, 2015

Disaster Type	*Impact*							
	Occurrence	(share in %)	Killed	(share in %)	Affected	(share in %)	Damage (US$ million)	(share in %)
Drought	5	(2.8%)	11	(0.1%)	19,931,687	(29.3%)	3,161,399	(9.2%)
Earthquake	20	(11.3%)	9,528	(58.2%)	6,505,561	(9.5%)	5,227,850	(15.2%)
Epidemic	3	(1.7%)	39	(0.2%)	5,428	(0.0%)		(0.0%)
Extreme temperature	6	(3.4%)	3,516	(21.5%)	1,059,867	(1.6%)		(0.0%)
Flood	67	(37.9%)	2,037	(12.4%)	30,363,476	(44.6%)	12,545,500	(36.4%)
Landslide	16	(9.0%)	543	(3.3%)	45,334	(0.1%)	3,000	(0.0%)
Storm	59	(33.3%)	680	(4.2%)	9,820,457	(14.4%)	12,555,257	(36.4%)
Volcanic activity								
Wildfire	1	(0.6%)	19	(0.1%)	409,664	(0.6%)	1,000,000	(2.9%)
Total	177	(100.0%)	16,373	(100.0%)	68,141,474	(100.0%)	34,493,006	(100.0%)

Source:
EM-DAT: The OFDA/CRED International Disaster Database – www.emdat.be,
Université Catholique de Louvain, Brussels (Belgium)

4. TRENDS OF WORLD NATURAL DISASTERS, 1986-2015

4-1 NUMBER OF DISASTERS IN THE WORLD (1986-2015)

In terms of number of disasters, the year 2015 sees an increase from the previous year's 342 to 394. In the long run, the upward trend continues from the late 1980s till 2000 and the downward trend follows. In the collective 5-year period representation of data in Figure 4-2, a downward trend is observed in the last 15 years starting from 2001-2005 period.

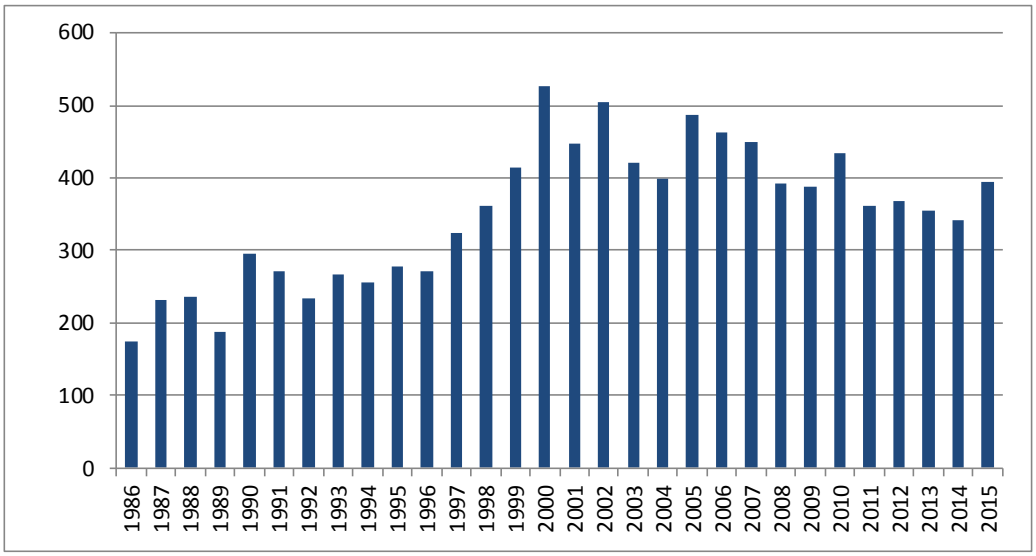


Figure 4-1: Disaster Occurrence, 1986-2015

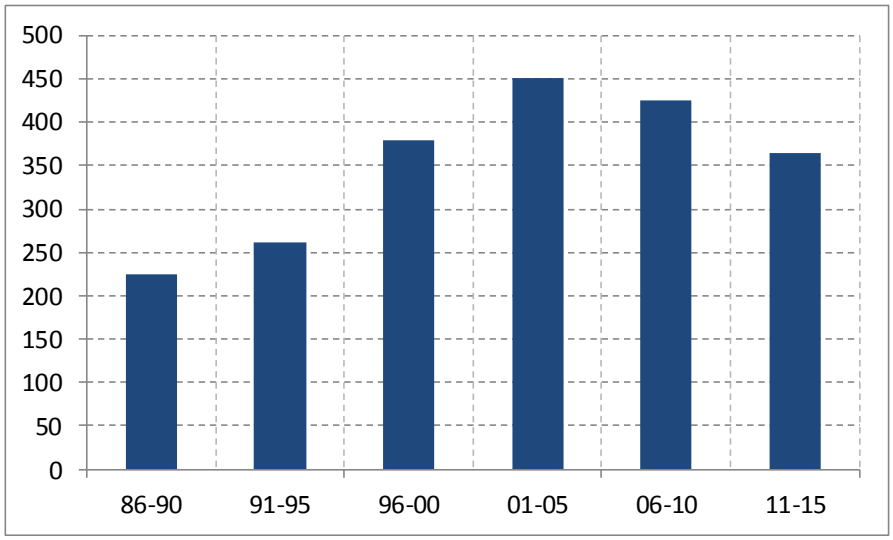


Figure 4-2: Disaster Occurrence (Average of 5-year period), 1986-2015

Source:
EM-DAT: The OFDA/CRED International Disaster Database – www.emdat.be,
Université Catholique de Louvain, Brussels (Belgium)

4-2 NUMBER OF PEOPLE KILLED IN THE WORLD (1986-2015)

The year 2015 shows an increase of death toll from the previous year's 20,882 to 23,834. As seen in Figure 4-4 about the trend of the 5-year period average, the number of people killed for the period 2011-2015 shows drastic decrease from 128,085 to 22,540.

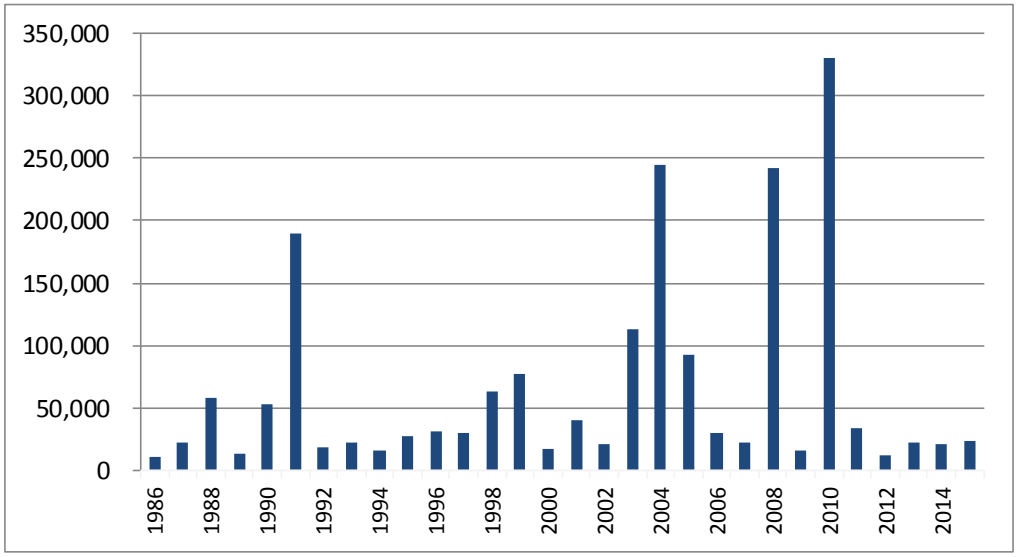


Figure 4-3: Number of People Killed, 1986-2015

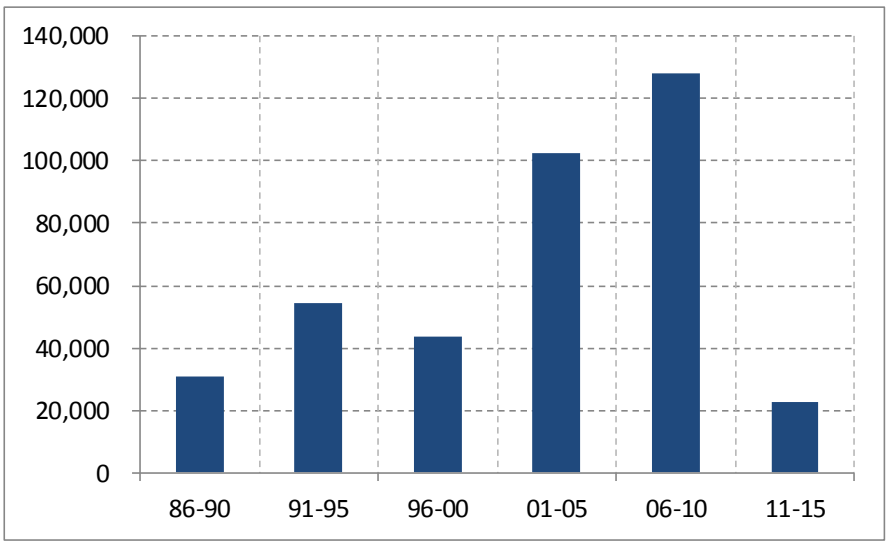


Figure 4-4: Number of People Killed (Average of 5-year period), 1986-2015

Source:
EM-DAT: The OFDA/CRED International Disaster Database – www.emdat.be,
Université Catholique de Louvain, Brussels (Belgium)

4-3 NUMBER OF PEOPLE AFFECTED IN THE WORLD (1986-2015)

In terms of number of the affected people, the year 2015 sees a decrease from the previous year's 140,969,258 people to 110,901,763. The 5-year period average representation shows that the number of affected people continues to decrease in the last 15 years.

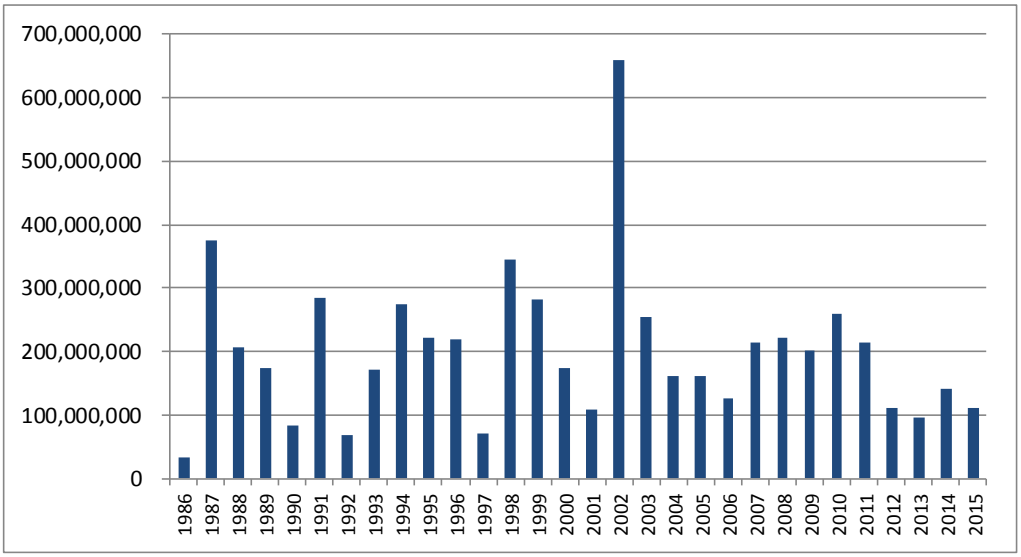


Figure 4-5: Total Number of Affected People, 1986-2015

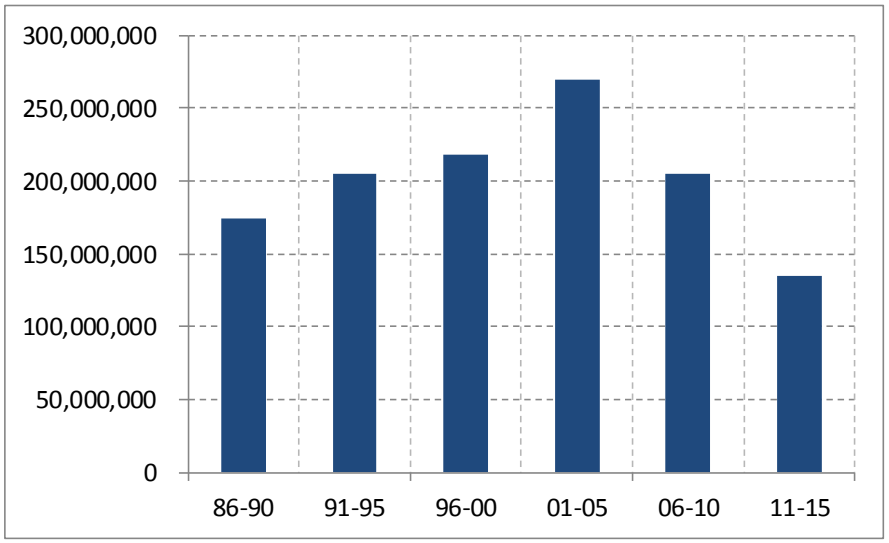


Figure 4-6: Number of Affected People (Average of 5 year period), 1986-2015

Source:
EM-DAT: The OFDA/CRED International Disaster Database – www.emdat.be,
Université catholique de Louvain, Brussels (Belgium)

4-4 ECONOMIC DAMAGE IN THE WORLD (1986-2015)

Economic damage caused by natural disasters declines from some US$97.8 billion in 2014 to US$ 72.8 billion in 2015, the lowest in the last five years. By contrast, in the 5-year period average analysis, the 2011-2015 average reached a record high level in the last 30 years.

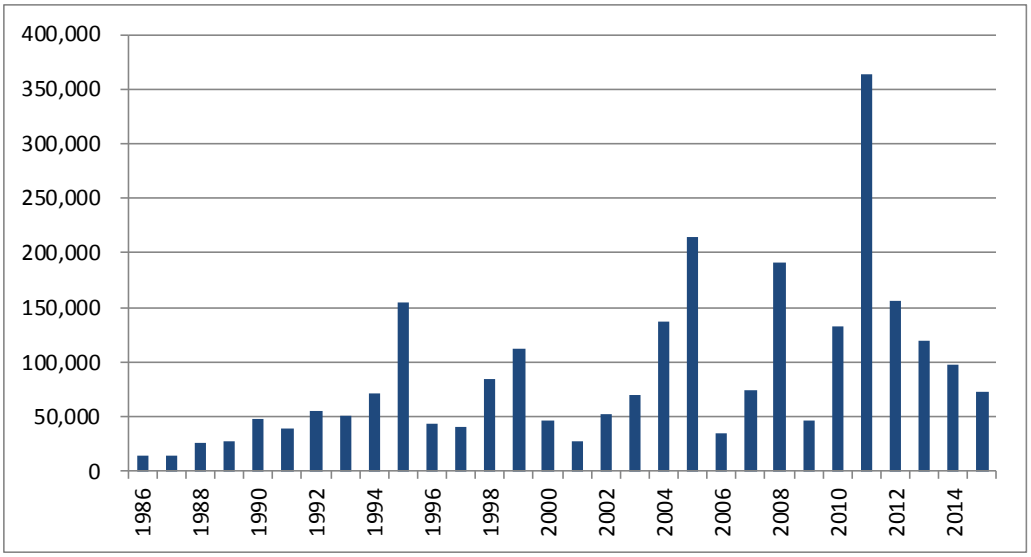


Figure 4-7: Amount of Damage (million USD), 1986-2015

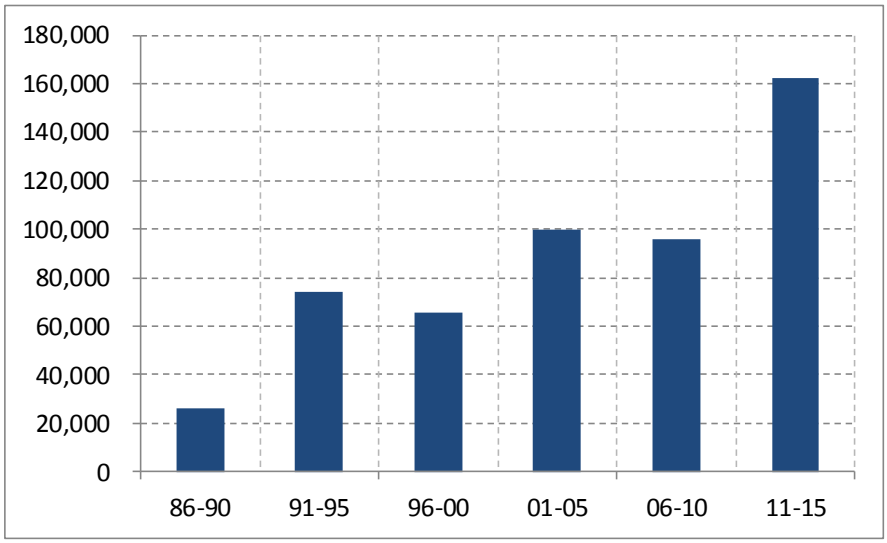


Figure 4-8: Economic Damage (Average of 5-year period), 1986-2015

Source:
EM-DAT: The OFDA/CRED International Disaster Database – www.emdat.be,
Université Catholique de Louvain, Brussels (Belgium)

5. IMPACTS OF WORLD NATURAL DISASTERS BY REGION, 1986-2015

For the period 1986-2015, Asia dominates and ranks the first in all natural disasters' impact categories across regions of the world, especially in terms of the number of killed and affected.

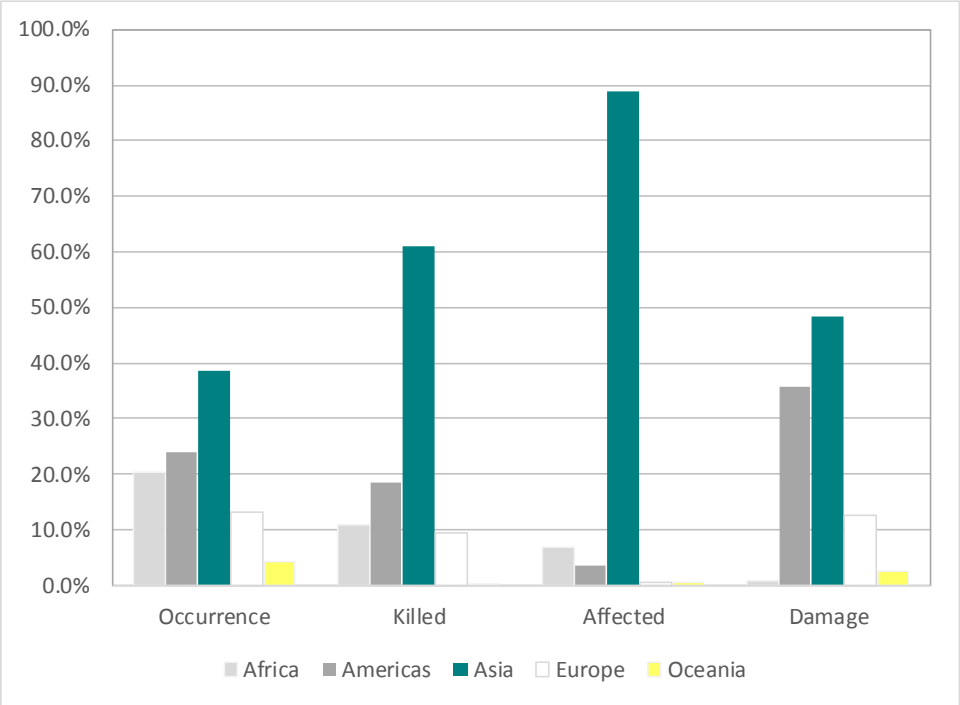


Figure 5: Impacts of World Natural Disasters by Region, 1986-2015

Table 5: Impacts of Natural Disasters by Region, 1986-2015

Region	*Impact*							
	Occurrence	(share in %)	Killed	(share in %)	Affected (thousand)	(share in %)	Damage (million US$)	(share in %)
Africa	2,133	(20.2%)	207,396	(10.8%)	412,066	(6.8%)	23,149	(0.9%)
Americas	2,531	(24.0%)	354,379	(18.5%)	204,208	(3.4%)	937,815	(35.8%)
Asia	4,064	(38.6%)	1,164,728	(60.9%)	5,349,809	(88.8%)	1,262,641	(48.2%)
Europe	1,372	(13.0%)	179,374	(9.4%)	36,220	(0.6%)	325,737	(12.4%)
Oceania	435	(4.1%)	5,745	(0.3%)	22,987	(0.4%)	68,328	(2.6%)
Total	10,535	(100.0%)	1,911,622	(100.0%)	6,025,290	(100.0%)	2,617,670	(100.0%)

Source:
EM-DAT: The OFDA/CRED International Disaster Database – www.emdat.be,
Université Catholique de Louvain, Brussels (Belgium)

6. THE 25 WORST DISASTERS IN ASIA 2015

6-1 THE 25 WORST DISASTERS IN ASIA BY NUMBER OF PEOPLE KILLED, 2015

The death toll by the earthquake in Nepal in April tops at 8831 in Asia in 2015, followed by the Heat wave in India at 2248. There are 12 disaster events in Asia found in the list which claimed more than 100 lives. Flood occupies twelve ranks in the worst 25 list.

Table 6-1: The 25 Worst Disasters in Asia by Number of People Killed, 2015

	Disaster Type	Country	Date	Killed	Affected	Economic Damage (US$ Million)
1	Earthquake	Nepal	25/04/2015	8,831	5,639,722	5,174
2	Extreme temperature	India	20/05/2015	2,248		
3	Extreme temperature	Pakistan	18/06/2015	1,229	80,000	
4	Flood	India	08/11/2015	325	1,801,000	2,200
5	Flood	India	15/07/2015	293	13,709,887	
6	Earthquake	Pakistan	25/10/2015	280	502,590	
7	Landslide	Afghanistan	15/02/2015	254	32,985	3
8	Flood	Pakistan	15/07/2015	238	1,572,423	
9	Earthquake	Nepal	12/05/2015	138	2,428	
10	Earthquake	Afghanistan	26/10/2015	115	92,725	
11	Flood	Myanmar	15/07/2015	110	9,000,000	119
12	Storm	India	21/04/2015	100	125,100	160
13	Flood	India	19/06/2015	81	9,000	604
14	Earthquake	India	25/04/2015	78	560	0
15	Flood	Iraq	28/10/2015	58	65,000	0
16	Flood	China P Rep	13/05/2015	58	82,000	800
17	Storm	Bangladesh	01/04/2015	53	20,200	4
18	Landslide	Afghanistan	27/04/2015	52	500	0
19	Storm	Philippines	14/10/2015	51	2,898,590	211
20	Flood	Pakistan	26/04/2015	49	5,067	1
21	Storm	Philippines	14/12/2015	46	287,251	135
22	Storm	Bangladesh	29/07/2015	45	2,600,000	40
23	Flood	India	20/03/2015	44	2,122	76
24	Flood	China P Rep	16/08/2015	41	77,440	220
25	Flood	India	23/06/2015	40	1,000	

Source:
EM-DAT: The OFDA/CRED International Disaster Database – www.emdat.be,
Université Catholique de Louvain, Brussels (Belgium)

6-2 THE 25 WORST DISASTERS IN ASIA BY NUMBER OF PEOPLE AFFECTED, 2015

In terms of the number of people affected, the drought in Korea PDR ranks the first with 18.0 million people affected. In 2015, the number of disaster events that affected more than one million amounts to 12. By country, China has six ranks in the list. By disaster type, flood amounts to 9 out of the 25 disasters followed by 8 storms.

Table 6-2: The 25 Worst Disasters in Asia by Total Number of People Affected, 2015

	Disaster Type	Country	Date	Killed	Affected	Economic Damage (US$ Million)
1	Drought	Korea DPR	00/06/2015		18,000,000	
2	Flood	India	15/07/2015	293	13,709,887	
3	Flood	Myanmar	15/07/2015	110	9,000,000	119,000
4	Earthquake	Nepal	25/04/2015	8,831	5,639,722	5,174,000
5	Storm	Philippines	14/10/2015	51	2,898,590	210,985
6	Storm	Bangladesh	29/07/2015	45	2,600,000	40,000
7	Flood	India	08/11/2015	325	1,801,000	2,200,000
8	Drought	Viet Nam	00/12/2015		1,750,000	613,000
9	Storm	China P Rep	09/08/2015	18	1,580,000	1,282,690
10	Flood	Pakistan	15/07/2015	238	1,572,423	
11	Flood	Bangladesh	23/06/2015	20	1,401,901	40,000
12	Storm	Lebanon	06/01/2015	2	1,000,000	
13	Extreme temperature	Mongolia	00/11/2015		965,000	
14	Flood	India	28/08/2015	18	787,000	
15	Flood	China P Rep	10/11/2015	38	639,000	130,000
16	Earthquake	Pakistan	25/10/2015	280	502,590	
17	Wildfire	Indonesia	00/09/2015	19	409,664	1,000,000
18	Storm	Philippines	22/08/2015	40	318,383	30,299
19	Storm	Philippines	14/12/2015	46	287,251	135,217
20	Earthquake	China P Rep	25/04/2015	29	207,883	
21	Storm	China P Rep	22/06/2015		193,000	11,000
22	Drought	Philippines	00/08/2015		181,687	84,399
23	Flood	China P Rep	26/06/2015	35	144,900	645,000
24	Flood	China P Rep	20/07/2015	28	128,610	1,200,000
25	Storm	India	21/04/2015	100	125,100	160,000

Source:
EM-DAT: The OFDA/CRED International Disaster Database – www.emdat.be,
Université Catholique de Louvain, Brussels (Belgium)

6-3 THE 25 WORST DISASTERS IN ASIA BY ECONOMIC DAMAGE, 2015

According to the EM-DAT database, the earthquake in Nepal tops in the 25 ranks of the worst economic damage in Asia in 2015 with US$ 5,174 million. By country, China occupies as many as 15 out of 25ranks. By disaster type, flood and storm have the largest shares with 13 and 8, ranks respectively.

Table 6-3: The 25 Worst Disasters in Asia by Economic Damage, 2015

	Disaster Type	Country	Date	Total deaths	Total affected	Economic Damage (US$ Million)
1	Earthquake	Nepal	25/04/2015	8,831	5,639,722	5,174
2	Storm	China P Rep	04/10/2015	20	78,300	4,200
3	Drought	China P Rep	00/05/2015			2,464
4	Flood	India	08/11/2015	325	1,801,000	2,200
5	Flood	China P Rep	07/06/2015	16	60,000	2,000
6	Storm	Philippines	12/07/2015	5	14,100	1,500
7	Flood	Japan	09/09/2015	21	45,046	1,400
8	Storm	China P Rep	09/08/2015	18	1,580,000	1,283
9	Flood	China P Rep	20/07/2015	28	128,610	1,200
10	Wildfire	Indonesia	00/09/2015	19	409,664	1,000
11	Storm	China P Rep	11/07/2015		13,800	940
12	Storm	India	06/03/2015	27		906
13	Flood	China P Rep	13/05/2015	58	82,000	800
14	Storm	China P Rep	28/09/2015			661
15	Flood	China P Rep	26/06/2015	35	144,900	645
16	Flood	China P Rep	01/06/2015	9	60,000	625
17	Drought	Viet Nam	00/12/2015		1,750,000	613
18	Flood	India	19/06/2015	81	9,000	604
19	Flood	Iran	12/11/2015	9	17,700	516
20	Flood	China P Rep	28/05/2015	17	60,000	500
21	Storm	China P Rep	07/05/2015	7	79,800	461
22	Flood	China P Rep	02/08/2015	19	45,000	418
23	Flood	China P Rep	13/05/2015	20	60,000	254
24	Storm	China P Rep	19/04/2015	2	10,000	250
25	Flood	Indonesia	08/02/2015	6		235

Source:
EM-DAT: The OFDA/CRED International Disaster Database – www.emdat.be,
Université Catholique de Louvain, Brussels (Belgium)

7. DISASTERS IN ASIA BY COUNTRY, 2015

Country	Disaster Type	Occurrence	Total deaths	Total affected	Damage ('000 US$)
Afghanistan	Earthquake	2	115	93,132	
	Landslide	4	324	33,635	3,000
Bangladesh	Earthquake	1	4	200	
	Flood	2	31	1,411,901	40,000
	Landslide	1	7	1,003	
	Storm	4	117	2,660,250	44,000
China	Drought	1			2,464,000
	Earthquake	5	33	227,818	32,850
	Flood	12	310	1,374,350	6,992,000
	Landslide	1	38	300	
	Storm	17	119	2,189,485	8,983,690
Georgia	Flood	1	40	10,320	23,000
India	Earthquake	3	98	570	
	Extreme temperature	1	2,248		
	Flood	10	839	16,413,459	2,880,000
	Landslide	1	3	9,000	
	Storm	6	212	135,100	1,069,000
Indonesia	Drought	1	11		
	Earthquake	1		12,247	
	Flood	6	9	67,309	235,000
	Landslide	3	45	160	0
	Wildfire	1	19	409,664	1,000,000
Iran (Islamic Rep of)	Flood	5	52	26,430	636,000
Iraq	Epidemic	1		2,217	
	Flood	1	58	65,000	
Israel	Storm	1		200	
Japan	Extreme temperature	3	39	14,867	
	Flood	1	21	45,046	1,400,000
	Storm	6	11	61,033	230,200
Kazakhstan	Flood	1	2	12,670	5,300
Korea Rep	Drought	1		18,000,000	
	Flood	1	33	3,541	
	Epidemic	1	36	185	
Kyrgyzstan	Earthquake	1		16,780	12,000
Lao P Dem Rep	Flood	2	4	47,940	10,000
Lebanon	Storm	3	5	1,001,692	0
Malaysia	Earthquake	1	24	10	
	Flood	1	1	3,000	
Mongolia	Extreme temperature	1		965,000	
Myanmar	Flood	3	133	9,014,000	119,000
	Landslide	2	38	1,200	
	Storm	1	3		
Nepal	Earthquake	2	8,969	5,642,150	5,174,000
	Landslide	2	65	36	

Country	Disaster Type	Occurrence	Total deaths	Total affected	Damage ('000 US$)
Oman	Storm	1		6,000	221,000
Pakistan	Earthquake	2	283	502,675	
	Extreme temperature	1	1,229	80,000	
	Flood	6	367	1,577,490	1,000
	Landslide	1	13		
Palestine, State of	Storm	2	4	31,050	
Philippines	Drought	1		181,687	84,399
	Flood	5	53	231,309	200
	Storm	10	148	3,606,205	1,881,367
Saudi Arabia	Flood	2	23	0	0
Sri Lanka	Flood	2	10	27,309	0
Syrian Arab Rep	Storm	2	13	3,500	0
Taiwan (China)	Storm	3	9	762	26,000
Tajikistan	Earthquake	1	2	7,976	5,000
	Flood	2		10,802	
	Landslide	1	10		
Timor-Leste	Earthquake	1		2,003	4,000
Turkey	Flood	2	17	6,500	0
Viet Nam	Drought	1		1,750,000	613,000
	Flood	2	34	15,100	204,000
	Storm	1	7	115	
Yemen	Epidemic	1	3	3,026	
	Storm	2	32	125,065	100,000
Total		177	16,373	68,141,474	34,493,006

Source:
EM-DAT: The OFDA/CRED International Disaster Database – www.emdat.be,
Université Catholique de Louvain, Brussels (Belgium)

7. DISASTERS IN ASIA BY DISASTER TYPE, 2015

Country	Disaster Type	Occurrence	Total deaths	Total affected	Damage ('000 US$)
Drought	China	1			2,464,000
	Indonesia	1	11		
	Korea Rep	1		18,000,000	
	Philippines	1		181,687	84,399
	Viet Nam	1		1,750,000	613,000
Earthquake	Afghanistan	2	115	93,132	
	Bangladesh	1	4	200	
	China	5	33	227,818	32,850
	India	3	98	570	
	Indonesia	1		12,247	
	Kyrgyzstan	1		16,780	12,000
	Malaysia	1	24	10	
	Nepal	2	8,969	5,642,150	5,174,000
	Pakistan	2	283	502,675	
	Tajikistan	1	2	7,976	5,000
	Timor-Leste	1		2,003	4,000
Epidemic	Iraq	1		2,217	
	Korea Rep	1	36	185	
	Yemen	1	3	3,026	
Extreme temperature	India	1	2,248		
	Japan	3	39	14,867	
	Mongolia	1		965,000	
	Pakistan	1	1,229	80,000	
Flood	Bangladesh	2	31	1,411,901	40,000
	China	12	310	1,374,350	6,992,000
	Georgia	1	40	10,320	23,000
	India	10	839	16,413,459	2,880,000
	Indonesia	6	9	67,309	235,000
	Iran Islamic Rep	5	52	26,430	636,000
	Iraq	1	58	65,000	
	Japan	1	21	45,046	1,400,000
	Kazakhstan	1	2	12,670	5,300
	Korea Rep	1	33	3,541	
	Lao P Dem Rep	2	4	47,940	10,000
	Malaysia	1	1	3,000	
	Myanmar	3	133	9,014,000	119,000
	Pakistan	6	367	1,577,490	1,000
	Philippines	5	53	231,309	200
	Saudi Arabia	2	23		
	Sri Lanka	2	10	27,309	0
	Turkey	2	17	6,500	0
	Tajikistan	2		10,802	
	Viet Nam	2	34	15,100	204,000
Landslide	Afghanistan	4	324	33,635	3,000
	Bangladesh	1	7	1,003	
	China	1	38	300	
	India	1	3	9,000	

Country	Disaster Type	Occurrence	Total deaths	Total affected	Damage ('000 US$)
	Indonesia	3	45	160	0
	Myanmar	2	38	1,200	
	Nepal	2	65	36	
	Pakistan	1	13		
	Tajikistan	1	10		
Storm	Bangladesh	4	117	2,660,250	44,000
	China	17	119	2,189,485	8,983,690
	India	6	212	135,100	1,069,000
	Israel	1		200	
	Japan	6	11	61,033	230,200
	Lebanon	3	5	1,001,692	
	Myanmar	1	3		
	Oman	1		6,000	221,000
	Palestine, State of	2	4	31,050	
	Philippines	10	148	3,606,205	1,881,367
	Syrian Arab Rep	2	13	3,500	0
	Taiwan (China)	3	9	762	26,000
	Viet Nam	1	7	115	
	Yemen	2	32	125,065	100,000
Wildfire	Indonesia	1	19	409,664	1,000,000
	Total	177	16,373	68,141,474	34,493,006

Source:
EM-DAT: The OFDA/CRED International Disaster Database – www.emdat.be,
Université Catholique de Louvain, Brussels (Belgium)

The Asian Disaster Reduction Center was established in Kobe, Japan in 1998 with the mission to enhance disaster resilience of its member-countries, to build safe communities, and to create a society where sustainable development is possible. The Center works to build disaster resilient communities and to establish networks among countries through many programs including personnel exchanges in this field.

Asian Disaster Reduction Center