

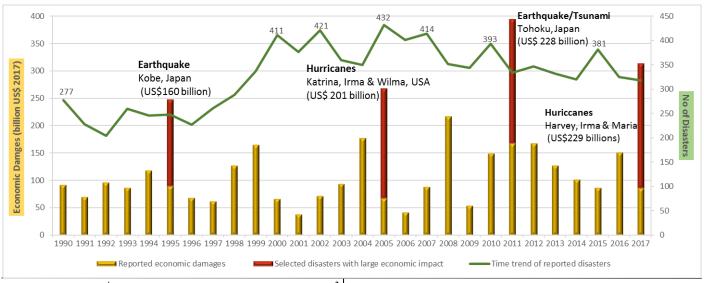
"Natural disasters in 2017: Lower mortality, higher cost"



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a) Annual occurrence and economic damages: 1990-2017



In 2017, EM-DAT¹ data indicates that **318** natural **disasters**² occurred, affecting 122 countries. The impact of which resulted in **9,503 deaths**, **96 million people affected**, and **US\$314 billion** in economic damages.

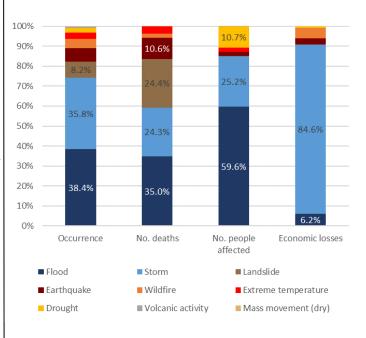
The human impact of natural disasters in 2017 was much lower than the last 10 year average, where events with extremely high mortality occurred, such as the 2010 earthquake in Haiti (225,570 deaths) and the 2008 Nargis Cyclone in Myanmar (138,400 deaths).

In 2017, there was no single major event responsible for increased mortality. This is unlike more recent years where the earthquake in Nepal (2015) killed 8,831 people and Typhoon Haiyan in the Philippines (2013) killed 7,354. Still both these years had a mortality below the 10 year average.

The year with the highest economic losses was 2011, at US\$400 billion, mainly due to the earthquake/tsunami in Japan (a). However, **2017 is the second most costly year**³, reflected in the impact of three hurricanes - Harvey (US\$95 billion), Irma (US\$66 billion) and Maria (US\$69 billion), affecting the United States and the Caribbean (cfr Cred Crunch 49).

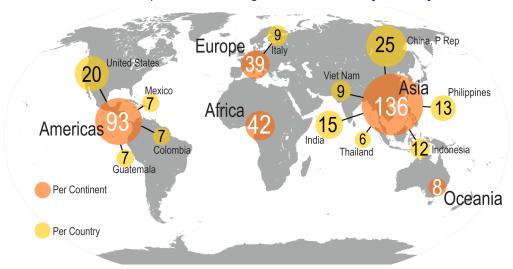
Weather-related disasters were responsible for the majority of both human and economic losses in 2017 (B). Almost 90% of deaths in 2017 were due to climatological, hydrological or meteorological disasters. Nearly 60% of people affected by disasters in 2017 were affected by floods, while 85% of economic damages were due to storms (mainly from the three hurricanes cited above).

b) Share by disaster type for 2017



As of the date of the 21st of March 2018
The CRED CRUNCH newsletter does not include epidemics and insect infestations as natural disasters unless explicitly stated.
EM-DAT contains data on disasters from 1900 to the present day

c) Number of reported disasters by country



d) Human impact in 2017 - 10 most affected countries

No. of deaths		No. deaths/100,000 inhabitants	
India	2,291	Dominica	86.57
Sierra Leone	1,102	St Barthelemy	42.43
Iran (Islamic Rep.)	509	British Virgin Islands	28.85
China P. Rep.	498	Anguilla	26.83
Mexico	498	Saint Martin	19.94
Colombia	384	Sierra Leone	14.58
Sri Lanka	329	Sint Maarten	9.97
Bangladesh	323	U.S. Virgin Islands	4.77
Viet Nam	316	Macao SAR (China)	1.61
United States of America (U.S.A)	288	Sri Lanka	1.58

No. of people affected (million)		No. affected/100,000 inhabitants	
India	22.33	Anguilla	100,000
China P. Rep.	15.15	Dominica	96,575
Bangladesh	11.48	Mauritania	88,137
Cuba	10.00	Cuba	87,073
Viet Nam	5.13	St Maarten	28,415
Philippines	4.87	Chad	12,663
Mauritania	3.90	Peru	12,052
Peru	3.88	Bangladesh	6,973
Thailand	3.82	Niger	6,243
Chad	1.89	Nepal	5,848

e) Economic impact in 2017 10 most affected countries

In absolute amounts (US\$ billion)		As % of Gross Domestic Product-GDP (2016)	
U.S.A	186.1	Sint Maarten	811.9
Puerto Rico	68.0	British Virgin Islands	284.3
China	18.1	Turks & Caicos Islands	68.3
Mexico	8.3	Puerto Rico	65.9
British Virgin Island	3.5	Dominica	65.4
Australia	3.2	Antigua and Barbuda	10.3
Peru	3.2	Macao SAR (China)	3.1
Viet Nam	3.1	Cuba	2.5
Italy	2.6	St Kitts & Nevis	2.2
Sint Maarten	2.5	Peru	1.7

In 2017, similar to previous years, the Asian continent experienced the highest disaster occurrence (43% of the total). China was the most disaster-affected country with 25 events (c): 15 floods / landslides and 6 storms.

In terms of human impact, India witnessed the highest burden of natural disasters in 2017 with almost 2,300 deaths and 22.5 million people affected (mostly by floods and storms). Sierra Leone was hit by a mudslide, killing 502 persons and left 600 people missing. People living in Anguilla and 87% of the population in Cuba were affected by Hurricane Irma. In Dominica, 96% of the population was affected by Hurricane Maria. In Mauritania, 88% of the population was affected by a drought (d).

The small Caribbean islands were highly affected by hurricanes Maria and Irma. Sint Maarten lost the equivalent of 812% of its GDP from Hurricane Irma, while the British Virgin Islands lost 284% of its GDP (e).

Overall, the high mortality and number of people affected correlated to the country's' population, as well as economic losses correlated to GDP, highlight the burden of disasters on small islands in 2017.

CRED News

- ◆CRED will organise the Summer Course on Assessing Public Health in Emergency Situations (APHES). This course will take place from July 2-13, 2018 in Brussels, Belgium. More information: www.aphes.be / contact@aphes.be
- ♦ Recent publications:
- → Van Loenhout JAF., Gil Cuesta J., Abello JE., Isiderio JM., De Lara-Banquesio ML., Guha-Sapir D. (2018) The impact of Typhoon Haiyan on admissions in two hospitals in Eastern Visayas, Philippines. Plos One, January 30.
- →Van Loenhout JAF., Delbiso TD., Kiriliouk A., Rodriguez-Llanes J., Segers J., Guha-Sapir D. (2018) Heat and emergency room admissions in the Netherlands. BMC Public Health. 18:108

Please note that disaster data are subject to change as validation and cross-referencing of the sources is undertaken and as new information becomes available. For any enquiries please contact contact@emdat.be or visit www.emdat.be