# 2018(Jul-Dec) Major Water-Related Disasters in the World

Italy (October) Severe storms caused floods and landslides in various parts of Italy. 75% of Venice was inundated. Death toll: 30, Missing: 1.

## Nigeria (July)

Intense rainfall from thunderstorms triggered flooding of rivers and drainage channels, which wiped out scores of houses. Death toll: 94, Missing: 8.

## India (Kerala)

(August to October) Kerala was affected by high rainfall during Monsoon season. Water was released from multiple dam reservoirs. It was considered the worst flooding in the state since 1924. Death toll: 359, Missing: 7.

### Lao PDR (Julv)

A saddle dam of Xenamnoy hydropower project site collapsed after days of heavy rain. Large amount of water swamped downstream villages. Concerns have been raised about substandard construction and dam management. Death toll: 49, Missing: 22.

Nepal (July to September) Flooding and Landslides caused by intermittent heavy rain during Monsoon affected Terai Region and other areas with major damage to infrastructure. Death toll: 100.

#### Myanmar (July)

Heavy Monsoon rains caused the spillway collapse of Swar Chaung Dam, which submerged nearby villages. The Yangon-Mandalay highway shut down disrupted traffic between major cities. Death toll: 4, Missing: 2. Typhoon Mangkhut (Philippines, Taiwan, China and Thailand) (September) Typhoon Mangkhut made landfall in Philippine's Luzon with Category 3 strength and caused landslide disasters. Mangkhut affected vast areas from North Mariana islands to the northern part of Thailand. Death toll: 90 (Philippines82, Taiwan 1, mainland China6, Thailand1), Missing; 9 (Philippines2, Thailand7). Mar. 11, 2019

Hurricane Florence (USA-North & South Carolinas, Virginia and Florida) (September) Florence landed in North Carolina with Category 1 strength and brought historic flooding, damaging winds and storm surge to the Southeastern states. Death toll: 55 (NC40, SC9, VA4, FL2).

> Hurricane Michael (USA-Florida, Georgia and Virginia) (Central America- Honduras, Nicaragua, etc.) (October) Michael made landfall in Florida Panhandle as a Category 4 hurricane. Its extreme storm surges, heavy rains, high winds and tornadoes caused massive destruction. Death toll: 66 (USA45, Central America21).

Number of Death	0~49
Number of Death	50 ~ 99
Number of Death	100~499
Number of Death	500 ~ 999
Number of Death	1000~



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Indonesia (Sunda) Tsunami (December) Deadly tsunami occurred after Anak Krakatau's volcanic activities. The coastal areas around Sunda Strait were severely damaged. Death toll: 437, Missing 16.

Indonesia (Sulawesi) Tsunami (September) Strong M7.5 earthquake and tsunami struck Central Sulawesi. Palu City was devastated by liquefaction and landslides as well as tsunami. Death toll: 4,340, Missing: 667. (Philippines) (December) Slow moving depression Usman brought torrential rainfall and strong wind, causing widespread flooding and landslides in the central and eastern parts of the country. Death toll: 156, Missing: 26.

**Tropical Depression Usman**