

# **Global Catastrophe Recap**

September 2016



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## **Executive Summary**

- Tropical cyclone landfalls around the globe lead to USD4.2+ billion in economic damage
- Rare earthquakes strike Tanzania, South Korea, Macedonia and the United States (Oklahoma)
- Seasonal rains leave more than 100 people dead in Asia and Africa

Hurricane Hermine became the first hurricane to make landfall in Florida in more than a decade when it came ashore as a Category 1 strength storm. It made landfall near St. Marks, FL but brought torrential rain and storm surge flooding to coastal sections of the Southeast and Mid-Atlantic. The storm claimed at least three lives as flooding and high winds caused widespread damage and hundreds of thousands of power outages in Florida, Georgia, and the Carolinas. Additional disruption and minor damage was reported into New York and New Jersey. Total overall economic losses were estimated to top USD800 million. Public and private insurers anticipated insured losses around USD400 million.

Hermine was the first hurricane to strike the state of Florida since Hurricane Wilma in October 2005.

A weakened Super Typhoon Meranti made landfall in China's Fujian Province after first grazing southern Taiwan and the northern Philippines province of Batanes. At least 44 people were killed and dozens more were injured. Meranti at its peak was a Category 5 storm with 305 kph (190 mph) sustained winds. More than 70,000 homes and vast cropland was damaged or destroyed. Overall economic losses were USD2.4 billion, with the vast majority reported in China (USD2.3 billion).

Other notable tropical cyclones during September included Typhoon Megi (USD940 million), Typhoon Malakas (USD100 million), and Hurricane Newton (USD10 million).

A magnitude-5.9 earthquake struck Tanzania on September 10, killing at least 23 people and injuring 600 others. The tremor had an epicenter located 22.0 kilometers (13.7 miles) northeast of Nsunga, Tanzania. Nearly 17,000 homes, schools and other structures were damaged or destroyed. The government cited TZS1.0 trillion (USD458 million) was needed for short and long-term recovery efforts in the Kagera region.

Elsewhere, rare earthquake events were noted in the U.S. state of Oklahoma (magnitude-5.8), South Korea (magnitude-5.4), and Macedonia (magnitude-5.3). Each temblor caused varying levels of damage.

Torrential downpours in India's Telangana and Andhra Pradesh states led to catastrophic flooding during the second half of September, killing at least 28 people. The monsoonal rains led to tens of thousands of homes being damaged and vast areas of cropland submerged. Local officials reported economic damage totaling INR32 billion (USD479 million).

Additional deadly and damaging flood events were recorded in Indonesia, China, Nigeria, Canada, Mexico, Greece, Australia, and the United States.

The Soberanes Fire continued to burn in California's Los Padres National Forest throughout September, after first igniting on July 22. The blaze became the most expense fire to fight in United States history (USD235 million) and burned a total of 132,092 acres (53,455 hectares).

Rounds of severe thunderstorms led to nearly three-dozen fatalities and more than USD300 million in economic damage around the globe. China and Nigeria were particularly impacted.

## **United States**

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
09/02-09/06	HU Hermine	Southeast, Mid-Atlantic	3	50,000+	800+ million
09/03	Earthquake	Oklahoma	0	Hundreds	Unknown
07/22-09/30	Wildfire	California	1	100+	250+ million
09/19-09/23	Flooding	Iowa, Wisconsin, Minnesota	2	Hundreds+	100+ million

Hurricane Hermine became the first hurricane to make landfall in Florida in more than a decade when it came ashore on September 2 as a Category 1 strength storm. It made landfall near St. Marks, FL but brought torrential rain and storm surge flooding to coastal sections of the Southeast and Mid-Atlantic. The storm claimed at least three lives as flooding and high winds caused widespread damage and hundreds of thousands of power outages in Florida, Georgia, and the Carolinas. Additional disruption and minor damage was reported into New York and New Jersey. Total overall economic losses were estimated to top USD800 million. Public and private insurers anticipated insured losses around USD400 million.

A USGS-registered moderate magnitude-5.8 earthquake struck near the Oklahoman town of Pawnee on September 3. It was the largest earthquake ever recorded in the state. There were no reports of any casualties or major damage. However, dozens of waste water wells were shut down in the aftermath.

The Soberanes Fire continued to burn in California's Los Padres National Forest throughout September, after first igniting on July 22. The blaze became the most expense fire to fight in United States history (USD235 million) and burned a total of 132,092 acres (53,455 hectares). The cost does not include losses incurred from the nearly 100 homes and outbuildings which were damaged or destroyed.

Excessive rainfall and strong thunderstorms from September 19-23 led to widespread riverine flooding in parts of Iowa, Wisconsin and Minnesota, killing at least two people. Several rivers swelled to well above normal levels and exceeded major flood stage. Damage to property, vehicles, agriculture and infrastructure was notable in a number of regions. Some of the worst flooding was along the Cedar River including in the greater Cedar Rapids metro region. The Cedar River crest at 21.97 feet (6.70 meters)— significantly less than the record crest of 31.12 feet (9.49 meters) in 2008. States of emergency were declared in Iowa and Wisconsin. Total economic losses were expected to exceed USD100 million.

## Remainder of North America (Non-US)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
09/06-09/07	HU Newton	Mexico	11	3,500+	10+ million
09/14-09/18	Flooding	Mexico	13	2,000+	Unknown
09/28-09/30	Flooding	Canada	0	1,000+	10s of Millions+
09/29-09/30	Flooding	Mexico	5	2,000+	Millions

Hurricane Newton made two separate landfalls at Category 1 storm strength in northwestern Mexico on September 6 and 7 causing damage around the resort city of Cabo San Lucas. At least 11 people were left dead or missing. The broad size of the storm also brought torrential rainfall to the states of Oaxaca, Colima, and Jalisco as flooding led to damage of approximately 3,500 homes. Total economic losses to property, agriculture and infrastructure were estimated in excess of USD10 million.

Prolonged heavy rainfall over southern portions of Mexico from September 14-18 triggered flooding and landslides that led to the deaths of at least 13 people in Guerrero and Chiapas States. More than 2,000 homes were damaged or destroyed, including more than 1,000 alone in the greater Acapulco region.

A slow-moving area of low pressure prompted heavy rainfall in Canada's Ontario province from September 28-30, causing widespread flooding. Most of the major damage to property and vehicles was noted in the Essex County cities and regions of Windsor, Tecumseh, and Leamington. Total economic and insured losses were expected to reach well into the tens of millions (USD).

Tremendous rainfall fell in the Mexican city of Durango on September 29-30, triggering flash floods that left five people dead. The region received 20 percent of its annual rainfall in just eight hours. Thousands of homes and other structures were inundated after 80 percent of Durango was under water.

## South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)

No significant natural disaster events were recorded in South America during the month of September.

# Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
09/06-09/07	Flooding	Greece	5	Thousands	56+ million
09/11	Earthquake	Macedonia	0	Hundreds	Millions

A complex low pressure area brought torrential downpours to portions of Greece on September 6-7. The rain triggered widespread floods that claimed four lives in Peloponnese Region. One other person was missing in Central Macedonia Region. Among the worst affected cities were Kalamáta and Thessaloniki where hundreds of homes and business were inundated and scores of vehicles were swept away. Damage was also noted to infrastructure and agriculture. Total economic damage was minimally estimated at EUR50 million (USD56 million).

A magnitude-5.3 earthquake struck Macedonia on September 11, leaving at least 100 people with minor injuries. The tremor occurred at 3:10 PM local time (13:10 UTC) with an epicenter just 4.0 kilometers (2.5 miles) east-northeast of the capital city of Skopje, Macedonia at a depth of 10.0 kilometers (6.2 miles). Local authorities reported that no widespread damage was apparent in Skopje, but that there were many instances of cracks in the walls of buildings or collapsed chimneys in several villages. Damage due to fallen indoor contents was also notable across the region.

## Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
09/06-09/07	Severe Weather	Nigeria	28	Hundreds	Unknown
09/10	Earthquake	Tanzania	23	16,500+	458+ million
09/20	Flooding	Nigeria	29	17,500+	Unknown

At least 28 people died in Nigeria as powerful thunderstorms triggered flooding and landslides on September 6-7 in the states of Akwa Ibom, Bauchi, Benue, Borno, Cross River, Delta, Kaduna, Kwara, Nawarawa, Yobe, and Zamfara. Hundreds of homes were damaged or destroyed.

A magnitude-5.9 earthquake struck Tanzania on September 10, killing at least 19 people and injuring 600 others, while 4 more casualties were reported from neighboring Uganda. The tremor was registered at 3:27 PM local time (12:27 UTC) with an epicenter located 22.0 kilometers (13.7 miles) northeast of Nsunga, Tanzania. The hardest-hit areas were in the Great Lakes Region, most notably the city of Bukoba, where more than 7,000 homes, schools and other structures were damaged or destroyed. The government determined that TZS1.0 trillion (USD458 million) was needed for short and long-term recovery efforts in the Kagera region.

Severe flooding claimed at least 29 lives in the Nigerian state of Jigawa on September 20. A total of 19 government areas in the state were affected following days of heavy rainfall. The fatalities were reported in Gwaram, Dutse, Jahun, Gumel, and Ringim government areas. A total of 17,500 homes and farms were damaged or destroyed.

## Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
09/04-09/06	Severe Weather	China	2	6,400+	123+ million
09/08-09/13	Severe Weather	China	0	2,000+	175+ million
09/12	Earthquake	South Korea	0	5,960+	21+ million
09/14-09/16	STY Meranti	China, Taiwan, Philippines	44	70,600+	2.4+ billion
09/18-09/22	Flooding	China	23	4,100+	21+ million
09/20	TY Malakas	Taiwan, Japan	1	1,200+	100+ million
09/20-09/21	Flooding	Indonesia	53	1,784+	Millions
09/21-09/29	Flooding	India	28	10,000+	479+ million
09/26-09/29	TY Megi	China, Taiwan	43	20,000+	940+ million

Two rounds of powerful thunderstorms impacted northern portions of China from September 4-6. The first brought severe weather and flooding to portions of Hebei, Shanxi, Inner Mongolia, Jilin, Heilongjiang, and Shandong provinces. Two people were killed and a further 200 were evacuated. A total of 68,100 hectares (168,280 acres) of cropland was damaged. The second outbreak affected Kashi, Kirgiz, and Ili regions of Xinjiang province as nearly 6,500 homes were impacted. Combined economic losses from the Ministry of Civil Affairs (MCA) were listed at CNY821 million (USD123 million).

Strong thunderstorms swept across northern and southern China from September 8-13, leading to widespread damage. Among the hardest-hit areas included parts of Shandong, Henan, Fujian, Hunan, Guangxi, Sichuan, Guizhou, Yunnan, Hebei, Inner Mongolia, Gansu, and Qinghai. Most of the damage occurred from hailstones up 2.0 centimeters (0.78 inches) that shattered windows, punctured roofs and destroyed crops. High winds and flooding rains from the strong thunderstorms also led to damage. The MCA cited that nearly 2,000 homes and 55,000 hectares (136,000 acres) of cropland was damaged or destroyed. Total economic losses were listed at CNY1.17 billion (USD175 million).

A magnitude-5.4 earthquake struck South Korea on September 12, causing widespread damage. The tremor occurred at 8:32 PM local time (11:32 UTC) with an epicenter located 8.0 kilometers (5.0 miles) south of Kyonju, South Korea. The shallow temblor left at least 32 people injured and damaged more than 5,960 homes and buildings. The National Research Institute of Cultural Heritage reported that 13 state-designated assets and 10 city or province-designated cultural properties were also damaged. It was the strongest earthquake since the Korea Meteorological Administration started recording such data in 1978. Total economic damage was listed at KRW23 billion (USD21 million).

A weakened Super Typhoon Meranti made landfall in China's Fujian Province on September 15 after first grazing southern Taiwan and ravaging the northern Philippines province of Batanes. At least 44 people were killed and dozens more were injured after Meranti at its peak was a Category 5 storm with 305 kph (190 mph) sustained winds. The most substantial impacts were noted in China, where the MCA cited that roughly 68,500 homes were damaged or destroyed and tens of thousands of hectares (acres) of cropland were submerged. Heavy damage was also reported to property and agriculture in Taiwan and the Philippines. Total economic losses in China were estimated at CNY15 billion (USD2.3 billion); in Taiwan, agricultural losses reached TWD2.2 billion (USD70 million). Losses in the Philippines were listed at PHP245 million (USD5.1 million). Insured losses in China's Fujian and Ningbo regions were minimally listed at CNY675 million (USD101 million) but expected to increase.

From September 18-22 portions of China's Sichuan and Yunnan provinces were impacted by flooding and landslides. A total of 23 people were killed or listed as missing. The MCA reported that 500 homes were destroyed and 3,600 sustained damage. A total of 2,800 hectares (6,915 acres) of crops were damaged or destroyed. The MCA listed combined economic losses at CNY140 million (USD21 million).

Typhoon Malakas made landfall in southern Japan on September 20 as a powerful Category 3 strength typhoon with sustained wind speeds of 185 kph (115 mph). It brought torrential rain to southern fringes of the archipelago that prompted widespread and damaging flooding. At least one person was killed and dozens more were injured as Malakas dropped up to 578 millimeters (23 inches) of rain in some locations. More than 2,000 homes and other structures were damaged or destroyed. Among the worst affected prefectures were Hyogo, Osaka, and Miyazaki.

Heavy rainfall over portions of Indonesia's West Java Province on September 20-21 prompted widespread flooding and numerous landslides that left at least 53 people dead or missing. The worst affected regency was Garut where the overflowing Ciamanuk River burst its banks and destroyed residential properties. Local authorities in West Java cited 1,784 homes damaged or destroyed.

Torrential downpours in India's Telangana and Andhra Pradesh states led to catastrophic flooding from September 21-29, killing at least 28 people. The monsoonal rains led to tens of thousands of homes being damaged and vast areas of cropland submerged. Local officials reported that losses in Telangana and Andhra Pradesh reached INR32 billion (USD479 million), of which INR15 billion (USD224 million) was attributed to crop and property damage alone.

Typhoon Megi made separate landfalls in Taiwan (September 27) and China (September 28), leaving at least 43 people dead or missing. Another 700 people were injured. In Taiwan, the storm came ashore at Category 3 intensity and brought extreme wind gusts and exceptional rainfall across the island. Nearly four million power outages were recorded. Total damage to agriculture and schools was listed at TWD3.4 billion (USD110 million). In China, Megi came ashore at Category 1 strength and brought considerable rainfall and high winds to Fujian, Zhejiang, Anhui, and Jiangxi provinces. More than 12,000 homes and 80,900 hectares (200,000 acres) of cropland were damaged or destroyed. Total economic losses exceeded CNY5.53 billion (USD830 million).

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
09/13-09/15	Flooding	Australia (SA, VIC)	1	2,000+	Millions
09/20-09/30	Flooding	Australia (NSW)	0	2,300+	383+ million
09/28-09/30	Severe Weather	Australia (SA)	0	Thousands	10s of Millions+

## Oceania (Australia, New Zealand, South Pacific Islands)

Days of heavy rainfall from September 13-15 led to flooding across parts of Australia, leaving one person dead. The hardest-hit states were Victoria and South Australia as some spots—such as Beaufort and Wedderburn in Victoria—recorded their wettest 72-hour stretches in more than 100 years. Local state emergency services in each state reported nearly 2,000 calls for help due to flooding or downed trees.

Several communities in Australia's New South Wales (NSW) state were inundated following major flooding in the Lachlan River basin. The most extensive damage occurred to the agricultural industry, particularly in areas around Forbes in NSW's Central West. Among the other communities affected were Condobolin, Jemalong, Bedgerabong, Gooloogong, Ungarie, Beckom, Cowrie, Ardlethan, and Griffith. The Insurance Council of Australia declared a catastrophe for the flooding and anticipated that insured losses would reach into the tens of millions (USD). Overall economic losses were even higher, with damage the Department of Primary Industries indicating damage to crops alone reached AUD500 million (USD383 million).

A powerful area of low pressure left considerable damage and power outages throughout the Australian state of South Australia from September 28-30. The storm was described by the Bureau of Meteorology (BoM) as a "1-in-50 year event" as it produced widespread torrential downpours, large hail, storm-force winds, and isolated tornadoes. Some of the most notable damage occurred in the greater Adelaide metropolitan region. Total economic and insured losses were likely to reach into the tens of millions (USD).

# Appendix

## Updated 2016 Data: January-August

#### **United States**

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/04-01/08	Flooding	California	0	10,000+	125+ million
01/09	Severe Weather	Florida	0	200+	10+ million
01/17	Severe Weather	Florida	2	200+	20+ million
01/21-01/24	Winter Weather	Mid-Atlantic, Northeast, Southeast	58	25,000+	1.0+ billion
01/24	Earthquake	Alaska	0	Hundreds	Unknown
01/31-02/01	Severe Weather	California	0	12,500+	175+ million
02/08-02/09	Winter Weather	Northeast, Mid-Atlantic	0	Hundreds	25+ million
02/13	Earthquake	Oklahoma	0	Hundreds	Unknown
02/13-02/16	Winter Weather	Northeast, Midwest, Southeast	6	20,000+	700+ million
02/19-02/20	Severe Weather	Midwest	0	25,000+	250+ million
02/22-02/25	Severe Weather	Plains, Midwest, Southeast, Northeast	10	100,000+	1.2+ billion
02/29-03/01	Severe Weather	Plains, Southeast	0	Hundreds	Millions
03/04-03/12	Severe Weather	Plains, Southeast, Midwest, West	6	60,000+	1.5+ billion
03/13-03/14	Severe Weather	Plains, Midwest, Southeast	0	10,000+	175+ million
03/13-03/15	Severe Weather	West, Midwest, Plains	1	17,500+	175+ million
03/17-03/18	Severe Weather	Plains, Southeast	0	135,000+	1.4+ billion
03/22-03/25	Severe Weather	Rockies, Plains, Southeast, Midwest	0	175,000+	2.5+ billion
03/26-03/27	Severe Weather	Midwest, Southeast	0	10,000+	75+ million
03/30-04/01	Severe Weather	Plains, Southeast, Midwest	0	20,000+	200+ million
04/02-04/04	Severe Weather	Midwest, Mid-Atlantic, Northeast	2	60,000+	475+ million
04/06-04/07	Severe Weather	Southeast, Midwest	0	Thousands	Millions
04/10-04/13	Severe Weather	Plains, Southeast	1	350,000+	3.75+ billion
04/15-04/19	Flooding	Plains, Rockies	9	25,000+	1.0+ billion
04/24-04/28	Severe Weather	Plains, Midwest, Southeast, Mid-Atlantic	1	110,000+	800+ million
04/29-05/03	Severe Weather	Plains, Midwest, Southeast, Mid-Atlantic	6	150,000+	1.75+ billion
05/07-05/10	Severe Weather	Plains, Midwest, Mississippi Valley	2	90,000+	1.0+ billion
05/10-05/12	Severe Weather	Plains, Midwest	0	90,000+	950+ million
05/16-05/17	Severe Weather	Texas, Oklahoma	0	17,000+	175+ million
05/21-05/28	Severe Weather	Plains, Midwest	1	95,000+	1.3+ billion
05/28-05/30	TS Bonnie	Southeast	0	Hundreds	Millions
05/29-06/02	Severe Weather	Plains	12	25,000+	275+ million
06/06-06/07	Severe Weather	Colorado	0	15,000+	175+ million
06/06-06/07	TS Colin	Florida, Carolinas	0	Hundreds	Millions
06/16-06/18	Severe Weather	Mid-Atlantic, Southeast, Northeast	0	20,000+	275+ million
06/16-06/18	Severe Weather	Plains, Midwest	0	Thousands	100+ million
06/22-06/26	Severe Weather	Mid-Atlantic, Midwest	23	5,500+	100s of Millions
06/23-07/05	Wildfire	California	2	Hundreds	100+ million

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
06/27-06/29	Severe Weather	Rockies, Plains	0	Thousands	Millions
07/04-07/07	Severe Weather	Plains, Midwest, Mid-Atlantic, Southeast	0	20,000+	200+ million
07/07-07/09	Severe Weather	Rockies, Midwest, Southeast	0	40,000+	375+ million
07/13-07/15	Severe Weather	Rockies, Plains, Midwest, Southeast	7	50,000+	450+ million
07/20-07/21	Severe Weather	Midwest	0	10,000+	140+ million
07/22-08/01	Wildfire	California	2	7,500+	100+ million
07/28-07/29	Severe Weather	Rockies, Plains	0	100,000+	1.0+ billion
07/30-08/01	Flooding	Mid-Atlantic, Northeast	2	15,000+	500+ million
08/02-08/04	Flooding	Desert Southwest	0	Hundreds	10s of millions
08/09-08/16	Flooding	Louisiana, Mississippi, MS Valley	13	250,000+	10 to 15 billion
08/13-08/26	Wildfires	California	0	Hundreds	100+ million
08/23-08/24	Flooding	Midwest	1	Hundreds	10s of millions
08/24-08/25	Severe Weather	Midwest	0	3,750+	125+ million

## Remainder of North America (Non-U.S.)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-02/29	Drought	Haiti	0	Unknown	84+ million
02/23-02/25	Winter Weather	Canada	0	Thousands	Millions
02/28	Flooding	Haiti	5	10,000+	Unknown
03/09-03/10	Severe Weather	Canada	1	Thousands	Millions
03/13	Severe Weather	Canada	0	Thousands	Millions
03/24-03/25	Winter Weather	Canada	0	Thousands	100+ million
04/23-04/24	Flooding	Haiti	6	4,400+	Unknown
04/27-05/01	Flooding	Haiti, Dominican Republic	1	2,500+	Millions
05/02-06/01	Wildfire	Canada	0	20,000+	5.0+ billion
05/07-05/08	Flooding	Haiti, Dominican Republic	5	890+	Unknown
05/26-05/31	Flooding	Haiti	1	2,901+	Unknown
06/09	Earthquake	Nicaragua, Honduras	0	3,200+	Unknown
06/24-06/25	Severe Weather	Canada	0	Thousands	50+ million
06/28-06/30	Severe Weather	Canada	0	Thousands	50+ million
07/08	Severe Weather	Canada	0	5,000+	50+ million
07/08-07/11	Severe Weather	Canada	0	5,000+	40+ million
07/15-07/16	Severe Weather	Canada	0	7,000+	80+ million
07/18-07/20	Severe Weather	Canada	0	10,000+	75+ million
07/27	Severe Weather	Canada	0	8,000+	60+ million
07/30-08/01	Severe Weather	Canada	0	25,000+	400+ million
08/02-08/07	HU Earl	Mexico, Central America, Caribbean	67	Thousands	250+ million
08/03-08/04	Severe Weather	Canada	0	Hundreds	10s of millions

#### South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-01/25	Flooding	Ecuador	9	2,000+	10+ million
01/09-01/15	Flooding	Brazil	3	25,000+	100+ million
02/20-02/25	Flooding	Peru	1	2,000+	Millions
03/10-03/11	Flooding	Brazil	30	5,000+	100+ million
04/10-04/14	Flooding	Argentina, Uruguay	0	7,500+	1.3+ billion
04/15-04/18	Flooding	Chile	12	5,000+	100+ million
04/15-04/25	Severe Weather	Uruguay	10	5,000+	25+ million
04/16	Earthquake	Ecuador	660	10,000+	3.0+ billion
05/18	Earthquake	Ecuador	1	Hundreds	Unknown
08/14	Earthquake	Peru	4	2,621	Unknown

## Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-01/08	Winter Weather	Central & Northern Europe	21	Unknown	Unknown
01/12-01/14	Winter Weather	Central & Northern Europe	3	Hundreds	Millions
01/25	Earthquake	Spain, Morocco	1	Hundreds	13+ million
01/29-01/30	WS Marita	UK, Scandinavia	0	Thousands	275+ million
02/01-02/02	WS Norkys	United Kingdom	0	Thousands	75+ million
02/08	WS Ruzica	UK, France, Scandinavia	0	Thousands	275+ million
02/27-02/28	Severe Weather	Italy	6	Thousands	Millions
03/06-03/08	Flooding	Serbia, Croatia, Montenegro	0	2,000+	100+ million
03/09-03/10	Flooding	United Kingdom	0	1,000+	Millions
03/27-03/29	WS Jeanne	UK, Scandinavia	1	Thousands	300+ million
04/08-04/15	Flooding	Saudi Arabia, Yemen, Oman	47	Thousands	Millions
04/16-04/22	Flooding	Russia	0	8,000+	Millions
05/26-06/06	Flooding	Germany, France, Austria, Poland	17	250,000+	5.5+ billion
06/04-06/06	Severe Weather	Russia	0	2,732+	Unknown
06/23-06/24	Severe Weather	Netherlands	0	Thousands	1.1+ billion
07/22	Flooding	Luxembourg	0	Thousands	50+ million
08/06	Flooding	Macedonia	22	3,500+	100+ million
08/08-08/20	Wildfires	Portugal, France, Spain	5	200+	250+ million
08/24	Earthquake	Italy	297	Thousands	4.5+ billion

## Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-01/10	Heatwave	South Africa	11	Unknown	Unknown
01/01-03/01	Drought	South Africa	0	Unknown	250+ million
01/01-02/01	Flooding	Burundi	52	5,100+	13+ million
01/01-03/01	Drought	Zimbabwe	0	Unknown	1.6+ billion
02/29	Flooding	Angola	54	Thousands	Unknown

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
03/06-03/09	Flooding	Angola	6	551+	Unknown
03/10	Flooding	Kenya	3	1,000+	Unknown
04/02-04/07	Flooding	Ethiopia	28	1,000+	Unknown
04/06-04/11	Flooding	Somalia, Malawi	19	10,000+	Millions
04/13-04/17	Flooding	Uganda	0	5,000+	2.7+ million
04/16-04/22	Flooding	Angola	19	2,500+	Unknown
04/29-05/02	Flooding	Kenya	39	2,000+	Unknown
05/07-05/08	Landslide	Rwanda	50	500+	Unknown
05/09	Landslide	Ethiopia	100	Unknown	Unknown
06/13	Flooding	Ghana	10	Unknown	Unknown
06/01-07/31	Flooding	Niger	14	2,000+	Unknown
07/12-08/09	Flooding	Mali, Burkina Faso	26	9,900+	Unknown
07/13-07/15	Flooding	Sudan	13	2,000+	Unknown
07/27	Severe Weather	South Africa	7	Thousands	250+ million
07/01-08/31	Flooding	Sudan, South Sudan	129+	41,000+	Unknown

#### Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-06/30	Drought	India	0	Unknown	5.0+ billion
01/01-06/30	Drought	Vietnam	0	Unknown	675+ million
01/01-06/30	Drought	Thailand	0	Unknown	285+ million
01/03	Earthquake	India	22	1,000+	75+ million
01/21	Earthquake	China	0	2,200+	15+ million
01/20-01/26	Winter Weather	China, Taiwan, Korea, Japan, Thailand	116	25,000+	2.0+ billion
01/26-01/29	Flooding	China	11	1,000+	20+ million
02/03	Winter Weather	India	10	Unknown	Unknown
02/05-02/09	Flooding	Indonesia	6	4,000+	Millions
02/06	Earthquake	Taiwan	117	Thousands	750+ million
02/18-02/19	Severe Weather	China	0	1,600+	62+ million
02/19-02/24	Flooding	Indonesia, Malaysia	1	7,200+	Millions
02/21-02/26	Winter Weather	China	0	1,000+	15+ million
03/03-03/09	Severe Weather	China	0	4,000+	315+ million
03/07-03/08	Flooding	Indonesia	6	3,500+	Unknown
03/07-03/11	Winter Weather	China	0	1,000+	140+ million
03/09	Severe Weather	United Arab Emirates, Oman	0	10,000+	500+ million
03/09-03/29	Flooding	Pakistan	141	1,058+	Millions
03/13	Flooding	Indonesia	5	5,900+	Unknown
03/19-03/22	Severe Weather	China	13	82,000+	170+ million
03/25-03/28	Severe Weather	China	0	2,000+	77+ million
03/26-03/29	Winter Weather	China	0	Unknown	146+ million
04/01-04/08	Flooding	China	10	30,000+	45+ million
04/01-04/30	Heatwave	India	300	Unknown	Unknown
04/02-04/08	Flooding	Pakistan, Afghanistan	152	5,000+	Millions

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
04/10-04/12	Severe Weather	China	8	22,000+	130+ million
04/13	Earthquake	Myanmar, Bangladesh, India	2	Hundreds	Unknown
04/14 & 04/16	Earthquake	Japan	120	260,000+	38+ billion
04/16-04/17	Flooding	Afghanistan	31	Unknown	Unknown
04/20-04/28	Flooding	China	20	16,000+	97+ million
04/21-04/23	Severe Weather	Myanmar	8	10,000+	Millions
04/22-04/25	Flooding	India	18	Thousands	150+ million
04/24-04/27	Severe Weather	China	0	2,000+	216+ million
02/01-05/02	Wildfires	India, Nepal	18	Unknown	Unknown
04/28-05/03	Flooding	China	3	6,000+	31+ million
04/29-05/03	Severe Weather	Myanmar	18	17,584+	2.6+ million
05/01-05/05	Severe Weather	China	4	31,500+	115+ million
05/04-05/11	Flooding	China	66	79,200+	820+ million
05/09-05/12	Flooding	Tajikistan, Afghanistan	10	2,550+	Unknown
05/12-05/14	Severe Weather	Bangladesh, India, Myanmar	67	Unknown	Unknown
05/13-05/16	Flooding	China	0	2,900	200+ million
05/14-05/15	Severe Weather	China	1	1,300	93+ million
05/14-05/21	CY Roanu	Sri Lanka, Southern Asia	135	125,000+	1.7+ billion
05/18-05/21	Flooding	China	12	14,700+	447+ million
05/19	Severe Weather	China	0	Unknown	91+ million
05/22	Landslide	India	10	Unknown	Unknown
05/22	Landslide	Yemen	20	Unknown	Unknown
05/22	Earthquake	China	0	46,166+	Unknown
05/22-05/23	Winter Weather	China	0	Unknown	61+ million
05/21-05/29	Flooding	China	17	Hundreds	69+ million
05/24-05/30	Severe Weather	China	0	5,000+	354+ million
05/31-06/02	Flooding	China	6	12,800+	403+ million
06/01	Severe Weather	Pakistan	15	Unknown	Unknown
06/02-6/08	Severe Weather	China	12	50,000+	768+ million
06/04-06/07	Flooding	China	0	Thousands	213+ million
06/06-06/16	Severe Weather	China	7	32,100+	822+ million
06/08-06/11	Flooding	Myanmar	12	4,500+	Unknown
06/09-06/16	Flooding	China	25	84,800+	664+ million
06/12	Severe Weather	India	11	Unknown	Unknown
06/16-06/23	Severe Weather	China	102	25,000+	500+ million
06/17-06/21	Flooding	Indonesia	62	2,000+	25+ million
06/18-06/23	Flooding	China	68	55,000+	2.3+ billion
06/20-06/21	Severe Weather	India	93	Unknown	Unknown
06/20-06/21	Flooding	Japan	7	2,000+	Millions
06/23-06/30	Flooding	China	34	50,000+	675+ million
06/25-07/01	Flooding	India	55	Thousands	Millions
06/26-06/29	Severe Weather	China	1	2,000+	165+ million
06/30-07/01	Flooding	Indonesia	0	14,109+	Unknown
05/01-08/01	Flooding	China	475+	500,000+	28+ billion

06/30-07/05     Flooding     Nepal     25     172       07/01-07/03     Severe Weather     China     0     0       07/01-07/03     Severe Weather     China     0     0       07/02-07/03     Flooding     Pakistan     46     100+       07/08-07/09     STY Nepartak     Philippines, Taiwan, China     111     38,000+       07/08-07/17     Severe Weather     China     4     5,700+       07/08-07/17     Flooding     India     44     19,600+       07/18-07/24     Flooding     China     289+     300,000+       07/19     Flooding     Nepal     122+     4,782       07/22-07/24     Flooding     North Korea     14     246       07/24     Flooding     Indonesia     4     2,600+       07/24     Severe Weather     China     14     24,500       07/24     Severe Weather     China     4     2,600+       07/24     Severe Weather     China     4     2,600+       07/24-07/29	Unknown 117+ million Unknown 1.5+ billion 41+ million Unknown 5.0+ billion
07/01-07/06     Flooding     India     62     Unknown       07/02-07/03     Flooding     Pakistan     46     100+       07/08-07/09     STY Nepartak     Philippines, Taiwan, China     111     38,000+       07/08-07/11     Severe Weather     China     4     5,700+       07/08-07/11     Severe Weather     China     44     19,600+       07/16-07/24     Flooding     China     289+     300,000+       07/19     Flooding     Afghanistan     17     Unknown       07/12-07/27     Flooding     North Korea     14     246       07/24     Flooding     Indonesia     4     2,600+       07/24     Flooding     Indonesia     4     2,600+       07/24     Severe Weather     China     14     24,500       07/27-07/28     TS Mirinae     China, Vietnam     5     2,000+       07/28-07/31     Flooding     Bangladesh     60     253,413+       07/22-08/04     Flooding     India     560     100,000+ <tr< td=""><td>Unknown Unknown 1.5+ billion 41+ million Unknown</td></tr<>	Unknown Unknown 1.5+ billion 41+ million Unknown
07/02-07/03     Flooding     Pakistan     46     100+       07/08-07/09     STY Nepartak     Philippines, Taiwan, China     111     38,000+       07/08-07/11     Severe Weather     China     4     5,700+       07/08-07/11     Severe Weather     China     4     5,700+       07/09-07/17     Flooding     India     44     19,600+       07/16-07/24     Flooding     China     289+     300,000+       07/19     Flooding     Afghanistan     17     Unknown       07/21-07/27     Flooding     Nerbal     122+     4,782       07/22-07/24     Flooding     Indonesia     4     2,600+       07/24     Severe Weather     China     4     9,700+       07/24     Severe Weather     China     14     24,500       07/27-07/28     TS Mirinae     China, Vietnam     5     2,000+       07/28-07/31     Flooding     Bangladesh     60     253,413+       07/22-08/04     Flooding     Myanmar     6     Thousands+	Unknown 1.5+ billion 41+ million Unknown
07/08-07/09     STY Nepartak     Philippines, Taiwan, China     111     38,000+       07/08-07/11     Severe Weather     China     4     5,700+       07/09-07/17     Flooding     India     44     19,600+       07/16-07/24     Flooding     China     289+     300,000+       07/19     Flooding     Afghanistan     17     Unknown       07/21-07/27     Flooding     Nepal     122+     4,782       07/22-07/24     Flooding     North Korea     14     246       07/24     Flooding     Indonesia     4     2,600+       07/24     Severe Weather     China     4     9,700+       07/28-07/30     Flooding     China     14     24,500       07/27-07/28     TS Mirinae     China, Vietnam     5     2,000+       07/22-08/04     Flooding     China     4     7,000       06/01-08/10     Drought     China     5     2,000+       07/22-08/04     Flooding     Bangladesh     60     253,413+ <t< td=""><td>1.5+ billion 41+ million Unknown</td></t<>	1.5+ billion 41+ million Unknown
07/08-07/11     Severe Weather     China     4     5,700+       07/09-07/17     Flooding     India     44     19,600+       07/16-07/24     Flooding     China     289+     300,000+       07/19     Flooding     Afghanistan     17     Unknown       07/21-07/27     Flooding     Nepal     122+     4,782       07/22-07/24     Flooding     Indonesia     4     2,600+       07/24     Flooding     Indonesia     4     2,600+       07/24     Severe Weather     China     14     24,600+       07/24     Severe Weather     China     14     24,500       07/27-07/29     Flooding     China     14     24,500       07/27-07/28     TS Mirinae     China, Vietnam     5     2,000+       07/28-07/31     Flooding     China     4     7,000       06/01-08/10     Drought     China     0     N/A       07/22-08/04     Flooding     Bangladesh     60     253,413+       07/22-08/01     <	41+ million Unknown
07/09-07/17     Flooding     India     44     19,600+       07/16-07/24     Flooding     China     289+     300,000+       07/19     Flooding     Afghanistan     17     Unknown       07/21-07/27     Flooding     Nepal     122+     4,782       07/22-07/24     Flooding     North Korea     14     246       07/24     Flooding     Indonesia     4     2,600+       07/24     Severe Weather     China     4     9,700+       07/24-07/29     Flooding     China     14     24,500       07/27-07/28     TS Mirinae     China, Vietnam     5     2,000+       07/28-07/31     Flooding     China     4     7,000       06/01-08/10     Drought     China     0     N/A       07/22-08/04     Flooding     Bangladesh     60     253,413+       07/22-08/04     Flooding     Myanmar     6     Thousands+       07/25-08/12     Flooding     Myanmar     6     Thousands+       07/25-08/03	Unknown
07/16-07/24     Flooding     China     289+     300,000+       07/19     Flooding     Afghanistan     17     Unknown       07/21-07/27     Flooding     Nepal     122+     4,782       07/22-07/24     Flooding     North Korea     14     246       07/24     Flooding     Indonesia     4     2,600+       07/24     Severe Weather     China     4     9,700+       07/24-07/29     Flooding     China     14     24,500       07/27-07/28     TS Mirinae     China, Vietnam     5     2,000+       07/28-07/31     Flooding     China     4     7,000       06/01-08/10     Drought     China     0     N/A       07/22-08/04     Flooding     Bangladesh     60     253,413+       07/22-08/01     Severe Weather     China     3     2,400+       07/28-08/01     Severe Weather     China     3     2,400+       07/28-08/01     Severe Weather     China     5     3,000+       07/31-08/02	
07/19     Flooding     Afghanistan     17     Unknown       07/21-07/27     Flooding     Nepal     122+     4,782       07/22-07/24     Flooding     North Korea     14     246       07/22-07/24     Flooding     Indonesia     4     2,600+       07/24     Severe Weather     China     4     9,700+       07/24-07/29     Flooding     China     14     24,500       07/27-07/28     TS Mirinae     China, Vietnam     5     2,000+       07/28-07/31     Flooding     China     4     7,000       06/01-08/10     Drought     China     0     N/A       07/22-08/04     Flooding     Bangladesh     60     253,413+       07/22-08/04     Flooding     Myanmar     6     Thousands+       07/28-08/01     Severe Weather     China     3     2,400+       07/28-08/01     Severe Weather     China     5     3,000+       07/28-08/01     Severe Weather     China     5     3,000+       07/31-08/02<	5.0+ billion
O7/21-07/27     Flooding     Nepal     122+     4,782       07/22-07/24     Flooding     North Korea     14     246       07/22-07/24     Flooding     Indonesia     4     2,600+       07/24     Severe Weather     China     4     9,700+       07/24-07/29     Flooding     China     14     24,500       07/27-07/28     TS Mirinae     China, Vietnam     5     2,000+       07/28-07/31     Flooding     China     4     7,000       06/01-08/10     Drought     China     4     7,000       06/01-08/10     Drought     China     5     2,000+       07/22-08/04     Flooding     Bangladesh     60     253,413+       07/22-08/04     Flooding     Myanmar     6     Thousands+       07/28-08/01     Severe Weather     China     3     2,400+       07/28-08/01     Severe Weather     China     5     3,000+       07/31-08/02     TY Nida     Philippines, China, Vietnam     12     1,000+       <	
07/22-07/24     Flooding     North Korea     14     246       07/24     Flooding     Indonesia     4     2,600+       07/24     Severe Weather     China     4     9,700+       07/24-07/29     Flooding     China     14     24,500       07/27-07/28     TS Mirinae     China, Vietnam     5     2,000+       07/28-07/31     Flooding     China     4     7,000       06/01-08/10     Drought     China     0     N/A       07/22-08/04     Flooding     Bangladesh     60     253,413+       07/22-08/04     Flooding     India     560     100,000+       07/25-08/12     Flooding     Myanmar     6     Thousands+       07/28-08/01     Severe Weather     China     3     2,400+       07/31-08/02     TY Nida     Philippines, China, Vietnam     0     15,000+       08/04-08/07     Severe Weather     China     15     4,800+       08/04-08/07     Severe Weather     China     12     1,000+	Unknown
07/24     Flooding     Indonesia     4     2,600+       07/24     Severe Weather     China     4     9,700+       07/24-07/29     Flooding     China     14     24,500       07/27-07/28     TS Mirinae     China, Vietnam     5     2,000+       07/28-07/31     Flooding     China     4     7,000       06/01-08/10     Drought     China     0     N/A       07/22-08/04     Flooding     Bangladesh     60     253,413+       07/22-08/04     Flooding     Myanmar     6     Thousands+       07/25-08/12     Flooding     Myanmar     6     Thousands+       07/28-08/01     Severe Weather     China     3     2,400+       07/31-08/02     TY Nida     Philippines, China, Vietnam     0     15,000+       08/02-08/05     Flooding     Vietnam     12     1,000+       08/02-08/05     Flooding     Vietnam     12     1,000+       08/05-08/08     Flooding     Pakistan     32     580+       08	Unknown
07/24     Severe Weather     China     4     9,700+       07/24-07/29     Flooding     China     14     24,500       07/27-07/28     TS Mirinae     China, Vietnam     5     2,000+       07/28-07/31     Flooding     China     4     7,000       06/01-08/10     Drought     China     0     N/A       07/22-08/04     Flooding     Bangladesh     60     253,413+       07/22-08/11     Flooding     India     560     100,000+       07/28-08/12     Flooding     Myanmar     6     Thousands+       07/28-08/01     Severe Weather     China     3     2,400+       07/31-08/03     Flooding     China     5     3,000+       07/31-08/03     Flooding     China     15     3,000+       07/31-08/03     Flooding     Vietnam     12     1,000+       08/02-08/05     Flooding     Vietnam     12     1,000+       08/04-08/07     Severe Weather     China     15     4,800+       08/05-08/08	Unknown
07/24-07/29     Flooding     China     14     24,500       07/27-07/28     TS Mirinae     China, Vietnam     5     2,000+       07/28-07/31     Flooding     China     4     7,000       06/01-08/10     Drought     China     0     N/A       07/22-08/04     Flooding     Bangladesh     60     253,413+       07/22-08/11     Flooding     India     560     100,000+       07/25-08/12     Flooding     Myanmar     6     Thousands+       07/28-08/01     Severe Weather     China     3     2,400+       07/31-08/03     Flooding     China     5     3,000+       07/31-08/02     TY Nida     Philippines, China, Vietnam     0     15,000+       08/02-08/05     Flooding     Vietnam     12     1,000+       08/02-08/05     Flooding     Pakistan     32     580+       08/05-08/08     Flooding     China     13     12,300+       08/05-08/10     Flooding     China     23     12,300+       0	Unknown
07/27-07/28     TS Mirinae     China, Vietnam     5     2,000+       07/28-07/31     Flooding     China     4     7,000       06/01-08/10     Drought     China     0     N/A       07/22-08/04     Flooding     Bangladesh     60     253,413+       07/22-08/11     Flooding     India     560     100,000+       07/28-08/12     Flooding     Myanmar     6     Thousands+       07/28-08/01     Severe Weather     China     3     2,400+       07/31-08/03     Flooding     China     5     3,000+       07/31-08/03     Flooding     China     5     3,000+       07/31-08/02     TY Nida     Philippines, China, Vietnam     0     15,000+       08/02-08/05     Flooding     Vietnam     12     1,000+       08/02-08/05     Flooding     Vietnam     12     1,000+       08/05-08/08     Flooding     Pakistan     32     580+       08/05-08/10     Flooding     China     23     12,300+       0	50+ million
07/28-07/31     Flooding     China     4     7,000       06/01-08/10     Drought     China     0     N/A       07/22-08/04     Flooding     Bangladesh     60     253,413+       07/22-08/04     Flooding     India     560     100,000+       07/22-08/11     Flooding     Myanmar     6     Thousands+       07/25-08/12     Flooding     Myanmar     6     Thousands+       07/28-08/01     Severe Weather     China     3     2,400+       07/31-08/03     Flooding     China     5     3,000+       07/31-08/02     TY Nida     Philippines, China, Vietnam     0     15,000+       08/02-08/05     Flooding     Vietnam     12     1,000+       08/02-08/05     Flooding     Vietnam     12     1,000+       08/04-08/07     Severe Weather     China     15     4,800+       08/05-08/08     Flooding     Pakistan     32     580+       08/05-08/10     Flooding     China     23     12,300+ <td< td=""><td>91 million</td></td<>	91 million
06/01-08/10     Drought     China     0     N/A       07/22-08/04     Flooding     Bangladesh     60     253,413+       07/22-08/01     Flooding     India     560     100,000+       07/22-08/11     Flooding     Myanmar     6     Thousands+       07/25-08/12     Flooding     Myanmar     6     Thousands+       07/28-08/01     Severe Weather     China     3     2,400+       07/31-08/03     Flooding     China     5     3,000+       07/31-08/02     TY Nida     Philippines, China, Vietnam     0     15,000+       08/02-08/05     Flooding     Vietnam     12     1,000+       08/02-08/05     Flooding     Vietnam     15     4,800+       08/05-08/08     Flooding     Pakistan     32     580+       08/05-08/08     Flooding     China     23     12,300+       08/05-08/10     Flooding     China     3     7,500+       08/08-08/16     Flooding     Thailand     3     7,500+       08	20+ million
07/22-08/04     Flooding     Bangladesh     60     253,413+       07/22-08/11     Flooding     India     560     100,000+       07/25-08/12     Flooding     Myanmar     6     Thousands+       07/28-08/01     Severe Weather     China     3     2,400+       07/31-08/03     Flooding     China     5     3,000+       07/31-08/02     TY Nida     Philippines, China, Vietnam     0     15,000+       08/02-08/05     Flooding     Vietnam     12     1,000+       08/05-08/08     Flooding     Pakistan     32     580+       08/05-08/08     Flooding     China     15     4,800+       08/05-08/10     Flooding     Pakistan     32     580+       08/05-08/10     Flooding     China     23     12,300+       08/05-08/16     Flooding     Philippines     26     Thousands       08/15-08/16     Flooding     Thailand     3     7,500+       08/15-08/16     Flooding     Thailand     3     7,500+	91 million
07/22-08/11     Flooding     India     560     100,000+       07/25-08/12     Flooding     Myanmar     6     Thousands+       07/28-08/01     Severe Weather     China     3     2,400+       07/31-08/03     Flooding     China     5     3,000+       07/31-08/02     TY Nida     Philippines, China, Vietnam     0     15,000+       08/02-08/05     Flooding     Vietnam     12     1,000+       08/04-08/07     Severe Weather     China     15     4,800+       08/05-08/08     Flooding     Pakistan     32     580+       08/05-08/10     Flooding     China     23     12,300+       08/08-08/16     Flooding     Philippines     26     Thousands       08/15-08/16     Flooding     Thailand     3     7,500+       08/15-08/19     TS Dianmu     China, Vietnam     17     4,100+	1.6+ billion
07/22-08/11     Flooding     India     560     100,000+       07/25-08/12     Flooding     Myanmar     6     Thousands+       07/28-08/01     Severe Weather     China     3     2,400+       07/31-08/03     Flooding     China     5     3,000+       07/31-08/02     TY Nida     Philippines, China, Vietnam     0     15,000+       08/02-08/05     Flooding     Vietnam     12     1,000+       08/04-08/07     Severe Weather     China     15     4,800+       08/05-08/08     Flooding     Pakistan     32     580+       08/05-08/10     Flooding     China     23     12,300+       08/08-08/16     Flooding     Philippines     26     Thousands       08/15-08/16     Flooding     Thailand     3     7,500+       08/15-08/19     TS Dianmu     China, Vietnam     17     4,100+	Millions
07/28-08/01     Severe Weather     China     3     2,400+       07/31-08/03     Flooding     China     5     3,000+       07/31-08/02     TY Nida     Philippines, China, Vietnam     0     15,000+       08/02-08/05     Flooding     Vietnam     12     1,000+       08/02-08/05     Flooding     Vietnam     12     1,000+       08/02-08/07     Severe Weather     China     15     4,800+       08/05-08/08     Flooding     Pakistan     32     580+       08/05-08/10     Flooding     China     23     12,300+       08/05-08/16     Flooding     Philippines     26     Thousands       08/15-08/16     Flooding     Thailand     3     7,500+       08/18-08/19     TS Dianmu     China, Vietnam     17     4,100+	150+ million
07/31-08/03     Flooding     China     5     3,000+       07/31-08/02     TY Nida     Philippines, China, Vietnam     0     15,000+       08/02-08/05     Flooding     Vietnam     12     1,000+       08/02-08/05     Flooding     Vietnam     12     1,000+       08/02-08/07     Severe Weather     China     15     4,800+       08/05-08/08     Flooding     Pakistan     32     580+       08/05-08/10     Flooding     China     23     12,300+       08/05-08/16     Flooding     Philippines     26     Thousands       08/15-08/16     Flooding     Thailand     3     7,500+       08/18-08/19     TS Dianmu     China, Vietnam     17     4,100+	Millions
07/31-08/02     TY Nida     Philippines, China, Vietnam     0     15,000+       08/02-08/05     Flooding     Vietnam     12     1,000+       08/04-08/07     Severe Weather     China     15     4,800+       08/05-08/08     Flooding     Pakistan     32     580+       08/05-08/10     Flooding     China     23     12,300+       08/08-08/16     Flooding     Philippines     26     Thousands       08/15-08/16     Flooding     Thailand     3     7,500+       08/18-08/19     TS Dianmu     China, Vietnam     17     4,100+	21+ million
08/02-08/05     Flooding     Vietnam     12     1,000+       08/04-08/07     Severe Weather     China     15     4,800+       08/05-08/08     Flooding     Pakistan     32     580+       08/05-08/10     Flooding     China     23     12,300+       08/08-08/16     Flooding     Philippines     26     Thousands       08/15-08/16     Flooding     Thailand     3     7,500+       08/18-08/19     TS Dianmu     China, Vietnam     17     4,100+	142+ million
08/04-08/07     Severe Weather     China     15     4,800+       08/05-08/08     Flooding     Pakistan     32     580+       08/05-08/10     Flooding     China     23     12,300+       08/08-08/16     Flooding     Philippines     26     Thousands       08/15-08/16     Flooding     Thailand     3     7,500+       08/18-08/19     TS Dianmu     China, Vietnam     17     4,100+	267+ million
08/05-08/08     Flooding     Pakistan     32     580+       08/05-08/10     Flooding     China     23     12,300+       08/08-08/16     Flooding     Philippines     26     Thousands       08/15-08/16     Flooding     Thailand     3     7,500+       08/18-08/19     TS Dianmu     China, Vietnam     17     4,100+	10+ million
08/05-08/10     Flooding     China     23     12,300+       08/08-08/16     Flooding     Philippines     26     Thousands       08/15-08/16     Flooding     Thailand     3     7,500+       08/18-08/19     TS Dianmu     China, Vietnam     17     4,100+	22+ million
08/08-08/16     Flooding     Philippines     26     Thousands       08/15-08/16     Flooding     Thailand     3     7,500+       08/18-08/19     TS Dianmu     China, Vietnam     17     4,100+	Unknown
08/15-08/16     Flooding     Thailand     3     7,500+       08/18-08/19     TS Dianmu     China, Vietnam     17     4,100+	123+ million
08/18-08/19 TS Dianmu China, Vietnam 17 4,100+	10+ million
	Unknown
	273+ million
08/19-08/22 Flooding India 40 10,000+	312+ million
08/20-08/24 Flooding China 1 12,000+	165+ million
08/22 TS Mindulle Japan 2 1,253+	Millions
08/24 Earthquake Myanmar 4 1,000+	1.0+ million
08/20-08/25 Flooding China 2 11,400+	96+ million
08/20-08/25 Severe Weather China 0 400+	70+ million
08/26-08/30 Flooding China 8 8,400+	76+ million
08/27-08/28 Flooding Pakistan 10 Unknown	Unknown
08/30-09/01 TY Lionrock Japan, China, Korean Peninsula 550+ 50,000+	

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/03-01/05	Flooding	Australia (NSW)	0	Hundreds	Millions
01/06-01/13	Bushfire	Australia (WA)	2	1,358+	100+ million
01/14	Severe Weather	Australia (NSW)	1	2,000+	25+ million
02/14	Earthquake	New Zealand	0	7,165+	Millions+
02/16-02/22	TC Winston	Fiji, Tonga	44	46,000+	1.4+ billion
03/23-03/24	Flooding	New Zealand	0	2,000+	25+ million
04/04-04/07	CY Zena	Fiji	2	1,000+	Millions
06/04-06/06	Severe Weather	Australia	4	45,522+	450+ million
07/16-07/17	Severe Weather	Australia (South Australia & Victoria)	0	Thousands	15+ million
8/22	Earthquake	Australia (Queensland)	0	1,000+	Millions

#### Oceania (Australia, New Zealand, South Pacific Islands)

#### Additional Report Details

TD = Tropical Depression, TS = Tropical Storm, HU = Hurricane, TY = Typhoon, STY = Super Typhoon, CY = Cyclone

Fatality estimates as reported by public news media sources and official government agencies.

Structures defined as any building – including barns, outbuildings, mobile homes, single or multiple family dwellings, and commercial facilities – that is damaged or destroyed by winds, earthquakes, hail, flood, tornadoes, hurricanes or any other natural-occurring phenomenon. Claims defined as the number of claims (which could be a combination of homeowners, commercial, auto and others) reported by various public and private insurance entities through press releases or various public media outlets.

Damage estimates are obtained from various public media sources, including news websites, publications from insurance companies, financial institution press releases and official government agencies. Damage estimates are obtained from various public media sources, including news websites, publications from insurance companies, financial institution press releases and official government agencies. Economic loss totals include any available insured loss estimates, which can be found in the corresponding event text.

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## About Aon Benfield

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