



# Global Catastrophe Recap

September 2017

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## Executive Summary

- Hurricane Irma leaves tens of billions (USD) in damage across the US & Caribbean; 124+ dead
- Hurricane Maria devastates parts of the Caribbean as damage costs soar well into the billions (USD)
- Mexico struck by three powerful earthquakes; 470+ dead as damage bill reaches the billions (USD)

Hurricane Irma crossed through the northern Caribbean as a Category 5 hurricane before making landfall in the United States. The storm became the first Category 4 landfall in Florida since 2004 (Charley). At least 124 people were left dead or missing and hundreds more were injured following periods of exceptionally gusty winds, high surf, storm surge, torrential rains and inland flooding. Major damage was noted in the United States, Cuba, Barbuda, the Virgin Islands, and the northern Leeward Islands.

Hurricane Maria became the second landfalling Category 5 hurricane in a matter of weeks when it struck Dominica and grazed St. Croix. The storm would later strike Puerto Rico as a high-end Category 4, the strongest storm to hit the island since 1932, and leave catastrophic damage and impacts. Additional damage was noted in the Dominican Republic and Haiti. At least 78 fatalities were confirmed.

With assessments still ongoing for both Irma and Maria, it remains too preliminary to provide a specific economic or insured loss estimate for each event – especially given the prolonged business interruption impact. The overall financial toll of each storm is expected to reach well into the tens of billions (USD). In each instance, public and private insurers faced payouts considerably exceeding USD10 billion.

Elsewhere, Tropical Storm Lidia claimed 20 lives when it tracked along Mexico's Baja Peninsula.

Typhoon Doksuri left extensive damage across Vietnam, the Philippines, southern China and Laos, claiming 40 lives and damaging nearly 250,000 homes. Economic losses were listed at USD500 million.

Tropical Storm Talim caused damage in Japan where nearly 7,000 homes were damaged.

Three powerful earthquakes struck Mexico during September. The temblors included the strongest earthquake of 2017: a magnitude-8.1 that struck offshore the state of Chiapas. That tremor, as well as a magnitude-6.2 aftershock, left at least 103 people dead. A magnitude-7.1 earthquake struck central Mexico causing extensive damage to residential and commercial properties, in addition to infrastructure, across the greater Mexico City metropolitan area. At least 367 people were killed and thousands more were injured. Total combined economic damage was expected to reach into the billions of dollars (USD).

A storm system prompted days of flash flooding in portions of Italy and Croatia, killing at least nine people. Economic damage was listed at USD250 million (Italy) and USD160 million (Croatia).

Other flood events were noted in the Democratic Republic of Congo (at least 105 dead), Uganda (23 dead or missing), and China (USD481 million in economic damage).

Separate severe weather outbreaks in Romania (eight killed) and China (2,400 homes and large swaths of agriculture damaged) in mid-September.

Windstorm Sebastian swept through the United Kingdom, the Netherlands, and Germany on September 12-13 claiming three lives and causing extensive damage to agriculture in Germany.

Major wildfires blazed across the western United States destroying dozens of homes and structures.

## United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
08/29-09/30	Wildfires	West	0	Hundreds	100+ million
09/10-09/12	Hurricane Irma	Southeast	80	1.0 million	10s of billions
9/26-9/28	Hurricane Maria	North Carolina	0	Unknown	Millions

Record-setting heat, a lack of rainfall, and gusty winds set the stage for major wildfires across several states in the US West throughout the month of September. Parts of California, Oregon and Washington all cited fire damage as dozens of homes and other structures were destroyed. The fires were so persistent that smoke traveled across the country and affected numerous outdoor events. The combination of damage and firefighting costs exceeded USD100 million.

Hurricane Irma made two landfalls in the United States on September 10 after first tracking through the northern Caribbean and causing catastrophic damage on multiple islands (see below). At least 80 direct and indirect casualties were blamed on Irma in the United States. Irma initially struck Cudjoe Key, Florida with 130 mph (210 kph) winds – becoming the first Category 4 hurricane to strike Florida since Charley in 2004 – before later striking Marco Island, Florida at Category 3 strength. The storm brought periods of exceptionally gusty winds, high surf, torrential rains and inland flooding across Florida before later spreading into parts of Georgia, South Carolina, Alabama, and North Carolina. Damage was particularly severe in the Florida Keys, South Florida and in Jacksonville. Total economic losses were expected to reach well into the tens of billions (USD). Data from the Florida Office of Insurance Regulation indicated that more than 660,000 claims had already been filed in the state alone.

Hurricane Maria remained off the East Coast of the United States from September 26-28, but led to minor coastal impacts across North Carolina. No serious injuries or fatalities were reported. Maria prompted tropical storm-force winds along the Outer Banks of North Carolina, but most damage was due to coastal erosion from high surf. Total damage was expected in the millions of dollars (USD).

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
09/01-09/02	TS Lidia	Mexico	20	Thousands	Millions
09/05-09/09	Hurricane Irma	Caribbean, Bahamas	44	50,000+	10+ billion
09/07 & 09/23	Earthquake	Mexico, Guatemala	103	45,000+	2.0+ billion
09/18-09/21	Hurricane Maria	Caribbean	78+	50,000+	10s of Billions
09/19	Earthquake	Mexico	367+	12,000+	Billions

Tropical Storm Lidia tracked along Mexico's Baja Peninsula on September 1 and 2 bringing gusty winds and torrential rainfall to Baja California Sur. At least seven people were killed while 13 others were listed as missing as flooding ensued in the storm's aftermath. Hundreds of buildings in the resort towns of Cabo San Lucas and San Jose del Cabo were severely damaged while scores of vehicles were swept away by floodwaters.

Hurricane Irma crossed several small islands throughout the northern Caribbean and Cuba from September 5-9, and caused catastrophic damage. At least 44 people were killed and hundreds of others were injured. Irma was an extremely dangerous Category 5 storm and crossed the following islands at this intensity: Barbuda, Sint Maarten, Tortola (British Virgin Islands), Little Inagua (Bahamas), and Cuba. The storm brought periods of exceptionally high winds, high surf, torrential rains and flooding to numerous islands in the Caribbean and later to Florida (see above). Damage was particularly catastrophic on Barbuda, Sint Maarten (St. Martin), Tortola in the British Virgin Islands, and Cuba; while heavy damage was also cited in parts of Puerto Rico and the eastern Bahamas. Total economic losses in the Caribbean from Irma were expected to minimally exceed USD10 billion. The combination of insurance losses via private industry and regional insurance pools were likely to be well into the billions (USD); including an estimate of USD1.44 billion alone in French Saint-Martin and Saint-Barthelemy.

The strongest earthquake of 2017 left severe damage and casualties across southern Mexico late on September 7. The USGS registered the offshore tremor at magnitude-8.1. The earthquake left at least 98 people dead and 300 others injured throughout the states of Chiapas, Oaxaca, and Tabasco in Mexico and in southwestern Guatemala. A strong magnitude-6.2 aftershock struck on September 23, killing an additional five people. Reports indicated that impacts were substantial as 41,000 homes, businesses and other structures were either damaged or destroyed in Mexico alone. Minor tsunami waves were also recorded in some coastal locations. Total economic losses were expected in the low-digit billions (USD).

Hurricane Maria underwent explosive intensification and made landfall in Dominica as a Category 5 storm with 160 mph (260 kph) winds on September 18, causing catastrophic damage on the island. The cyclone would later track near the U.S. Virgin Island of St. Croix and make landfall as a powerful Category 4 storm in Puerto Rico on September 20 – the strongest hurricane to strike the island since 1932. The level of damage across the Caribbean was extensive, which also included Guadeloupe, the Dominican Republic, Haiti, Saint Kitts and Nevis, and Martinique, merely weeks after Hurricane Irma left devastation in the Leeward Islands. At least 78 people were confirmed dead while several others were listed as missing. Total economic losses were expected to reach into the tens of billions (USD). Given low insurance take-up on many of the affected islands, the portion covered by insurers was expected to be lower but still substantially into the billions (USD).

A major magnitude-7.1 earthquake struck central Mexico on Tuesday, September 19, causing extensive damage across the greater Mexico City metropolitan area and near the epicenter in the city of Puebla. At least 367 people were confirmed dead, but this toll was expected to continue rising as relief and rescue operations remain underway. More than 6,000 others were injured as the jolt lasted for dozens of seconds. The tremor was widely felt across much of Mexico as many structures – including some multi-story structures – either collapsed or were severely damaged. In total some 7,000 homes and 5,000 schools were damaged or destroyed. At least 2,000 of these structures were listed as “historic buildings”. Substantial damage additionally occurred to infrastructure (including roads, bridges, and underground pipes) and the electrical grid. Total economic losses are expected to reach the billions of dollars (USD).

## South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
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There were no significant natural disaster events in South America during the month of September.

## Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
09/09-09/10	Flooding	Italy	9	1,000+	250+ million
09/11	Flooding	Croatia	0	Hundreds	160+ million
09/12-09/13	WS Sebastian	UK, Netherlands, Germany	3	Hundreds	10s of millions
09/17	Severe Weather	Romania	8	7,000+	10s of millions

Nine people died after torrential downpours struck Livorno, Italy during the night of September 9-10. The rainfall was associated with a strong area of low pressure, centered over the central Mediterranean region that triggered catastrophic flash flooding and landslides. Damage was widespread to infrastructure, homes, businesses and vehicles. Total economic losses were estimated at up to EUR215 million (USD250 million).

The same cyclone that previously affected Italy (see above) brought exceptional rainfall to the Zadar region of Croatia on September 11. Widespread flooding was reported from the city and many popular tourist destinations, including Nin. Hundreds of homes were flooded and at least two historical bridges were destroyed. Total economic damage to infrastructure alone was expected to exceed HRK1.0 billion (USD160 million).

Windstorm Sebastian, locally named “Aileen” in the United Kingdom and Ireland, marked an early start to the European windstorm season as it swept through northwestern Europe on September 12-13. The storm caused the deaths of three people in Germany. Among the affected countries were the United Kingdom, the Netherlands and Germany. Approximately 25,000 hectares (61,800 acres) of agricultural land was damaged in Germany. The national agricultural insurance association suggested that losses to the sector would likely be in the region of tens of millions (EUR).

Widespread damage was incurred in western Romania on September 17 as intense straight-line winds gusted across the region. Eight people were killed while a further 137 sustained injuries. Preliminary loss estimates placed damage to public property at RON36 million (USD9.4 million). The National Union of Insurance Companies stated that 7,000 household insurance claims were filed as of September 27.

## Middle East

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
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There were no significant natural disaster events in Middle East during the month of September.

## Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
09/19	Flooding	Democratic Republic of Congo	105	Hundreds	1.0+ million
09/26	Flooding	Uganda	25	Hundreds	1.0+ million

At least 13 people died and 92 others were listed as missing after a torrential downpour caused flash flooding in Bihambwe town, North Kiwu Province, Democratic Republic of Congo on September 19. Early reports estimated that at least 100 houses were destroyed. Several villages surrounding Bihambwe were also impacted. After several days of relief effort, authorities were not able to find any survivors among the missing and the total death toll is therefore expected to exceed 100.

At least 17 people were killed while eight others remained missing following flash floods in Uganda's Western Region on September 26. A further 14 people were hospitalized due to injuries sustained as flooding hit Rubanda district. Local media reported that multiple houses were also damaged or destroyed following the deluge.

## Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
09/08-09/11	Flooding	China	19	5,800+	94+ million
09/12-09/15	Typhoon Doksuri	Philippines, China, Indochina	40	230,500+	500+ million
09/14-09/18	Typhoon Talim	Japan	5	7,230+	700+ million
09/16-09/17	Severe Weather	China	0	2,400+	1.0+ million
09/18-09/19	Flooding	China	1	2,400+	26+ million
09/24-09/30	Flooding	China	16	20,500+	361+ million

Extensive flooding across multiple central and southern Chinese provinces left 19 people dead or missing from September 8-11. Among the affected provinces were Henan, Hubei, Chongqing, Sichuan, Guizhou, Yunnan, and Shaanxi. At least 500 homes were destroyed while a further 5,300 sustained damage. Extensive damage to agriculture was also noted as 38,000 hectares (93,900 acres) of crops were submerged. China's Ministry of Civil Affairs listed economic losses at CNY610 million (USD94 million).

Typhoon Doksuri became the first Category 3 storm to make landfall in Vietnam since November 1995 as it came ashore near the border of Quảng Bình and Hà Tĩnh provinces on September 15. At least nine people were killed, four were listed as missing, and hundreds of others were injured in Vietnam. Prior to making landfall, the system had already prompted extensive damage in the Philippines where it left 26 people dead or missing. Across the Philippines, Vietnam, Laos, and Thailand, Doksuri damaged or destroyed more than 230,500 homes. Extensive damage to agriculture and infrastructure was additionally noted. Economic losses in Vietnam alone were preliminarily listed at VND11 trillion (USD484 million).

Typhoon Talim weakened to a tropical storm prior to landfall in southern Japan on September 17, but heavy rain and gusty winds led to severe flooding and landslides that claimed the lives of at least five people. At least 59 others were injured. Almost 7,230 homes and other structures were damaged or destroyed, the majority of which were in Oita prefecture. Disruption to travel and transportation across Japan also resulted due to the effects of Talim. Total economic losses were estimated to reach as high as JPY79 billion (USD700 million).

China's Shanxi and Shaanxi provinces were subject to a severe weather outbreak from September 16-17 that led to extensive crop damage. Strong winds, hail, and heavy downpours affected corn and potato crops among others. The total agricultural area affected was 500 hectares (1,235 acres), of which 80 percent were destroyed. Additionally more than 2,200 homes were damaged and a further 200 were destroyed. The MCA listed economic losses at CNY6.0 million (USD900,000).

Heavy rainfall in portions of south-central China on September 18-19 led to extensive flooding in parts of Hubei, Hunan, Chongqing, Sichuan, and Guizhou provinces. One person was killed in Chongqing while more than 1,500 residents were evacuated. Across all affected provinces, some 2,200 homes were damaged while a further 200 were destroyed. The majority of the damaged/destroyed homes were in Chongqing (1,800/200). Significant agricultural damage was also reported as 1,700 hectares (4,200 acres) of crops were affected, again, the bulk of which were in Chongqing (1,300 hectares (3,210 acres)). The MCA listed aggregated economic losses at CNY171 million (USD26 million), of which CNY160 million (USD24 million) was incurred in Chongqing.

Four provinces in China's Loess Plateau region were affected by heavy rainfall from September 24-30. Southern Shaanxi, western Hubei, southern Sichuan, and northern Chongqing were all affected by subsequent flooding which left 10 people dead and a further six missing. Across the four affected provinces, a total of 17,700 homes were damaged and a further 2,800 were destroyed. Additional damage to agriculture in both provinces totaled a crop area affected comprising 36,600 hectares (90,440 acres). The MCA listed aggregated economic losses at CNY2.4 billion (USD361 million).

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
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There were no significant natural disaster events in Oceania during the month of September.



## Appendix

### Updated 2017 Data: January – August

#### United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-01/03	Severe Weather	Southeast, Plains	6	10,000+	250+ million
01/06-01/13	Winter Weather	Pacific Northwest, Southwest, Rockies	5	40,000+	700+ million
01/06-01/08	Winter Weather	Southeast, East Coast	5	Thousands	Millions
01/13-01/18	Winter Weather	Plains, Midwest	7	Thousands	Millions
01/17-01/19	Winter Weather	West, Rockies	4	Thousands	Millions
01/18-01/23	Severe Weather	Southeast, Plains, West, Northeast	21	100,000+	1.3+ billion
01/19-01/25	Winter Weather	West, Rockies, Plains, Midwest	5	Thousands	Millions
02/07-02/08	Severe Weather	Southeast	1	10,000+	175+ million
02/08-02/09	Winter Weather	Mid-Atlantic, Northeast	1	Unknown	Millions+
02/12-02/14	Flooding	California	0	N/A	200+ million
02/12-02/14	Winter Weather	Upper Mid-Atlantic, Northeast	1	Thousands	Millions+
02/14	Severe Weather	Texas	0	Hundreds	Millions+
02/16-02/18	Flooding	California	7	25,000+	800+ million
02/19-02/21	Flooding	California	1	10,000+	500+ million
02/19-02/20	Severe Weather	Texas	0	20,000+	225+ million
02/24-02/25	Severe Weather	Northeast, Mid-Atlantic	0	Thousands	Millions+
02/27-03/02	Severe Weather	Midwest, Southeast, Mid-Atlantic	4	175,000+	1.9+ billion
03/06-03/10	Severe Weather	Midwest, Plains, Southeast	0	250,000+	2.1+ billion
03/07-03/09	Wildfires	Plains, Rockies, Florida	7	Hundreds	100+ million
03/13-03/15	Winter Weather	Plains, Midwest, Southeast, Northeast	11	Thousands	1.0+ billion
03/20-03/22	Severe Weather	Southeast, Midwest	1	75,000+	975+ million
03/26-03/28	Severe Weather	Plains, Southeast, Midwest	0	180,000+	2.3+ billion
03/28-03/31	Severe Weather	Plains, Southeast, Midwest, Mid-Atlantic	1	30,000+	325+ million
04/01-04/03	Severe Weather	Plains, Southeast	5	30,000+	350+ million
04/04-04/06	Severe Weather	Plains, Mississippi Valley, Southeast	0	90,000+	900+ million
04/07-04/08	Severe Weather	West	1	10,000+	125+ million
04/09-04/11	Severe Weather	Plains, Midwest	1	30,000+	325+ million
04/14-04/20	Severe Weather	Plains, Midwest	0	Thousands	100+ million
04/21-04/26	Severe Weather	Plains, Midwest, Southeast, Mid-Atlantic	1	70,000+	950+ million
04/25-04/27	Severe Weather	Plains, Midwest, Southeast	0	15,000+	125+ million
04/28-05/01	Severe Weather	Midwest, Plains, Southeast, MS Valley	20	100,000+	2.0+ billion
05/02-05/05	Severe Weather	Plains, Mississippi Valley, Southeast	0	20,000+	175+ million
05/08-05/11	Severe Weather	Rockies, Plains	0	250,000+	2.6+ billion
05/15-05/19	Severe Weather	Plains, Midwest, Rockies	3	70,000+	975+ million
05/20-05/24	Severe Weather	Plains, Midwest, MS Valley, Southeast	1	Thousands	Millions
05/25-05/29	Severe Weather	Plains, Midwest, Mid-Atlantic, Rockies	2	40,000+	475+ million
06/02-06/07	Flooding	Florida	0	Thousands	Millions

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
06/02-06/04	Severe Weather	Plains	0	15,000+	175+ million
06/11	Severe Weather	Midwest	0	110,000+	1.8+ billion
06/12-06/14	Severe Weather	Plains, Rockies	0	70,000+	850+ million
06/15-06/19	Severe Weather	Plains, Midwest, Northeast	0	55,000+	525+ million
06/21-06/23	TS Cindy	Southwest	2	Hundreds	Millions
06/27-06/30	Severe Weather	Plains, Midwest, Northeast	0	90,000+	1.0+ billion
07/01-07/31	Wildfire	West	0	Hundreds	Millions
07/09-07/12	Severe Weather	Plains, Midwest, Ohio Valley	1	Thousands	170+ million
07/12-07/24	Flooding	Illinois	0	2,100+	Millions
07/15	Flooding	Arizona	10	N/A	N/A
07/19-07/20	Severe Weather	Midwest	0	Hundreds	Millions
07/21-07/23	Severe Weather	Plains, Midwest, Mid-Atlantic	4	35,000+	425+ million
07/31	TS Emily	Florida	0	Hundreds	≤10 million
08/01	Flooding	Southeast	0	1,000+	10s of millions
08/05-08/08	Severe Weather	Plains, Midwest, Southeast	0	15,000+	325+ million
08/10-08/11	Severe Weather	Plains, Midwest	0	Thousands	100+ million
08/16	Severe Weather	Plains, Midwest	0	Thousands	10s of millions
08/21-08/22	Severe Weather	Midwest, Ohio Valley, Northeast	1	Thousands	Millions+
08/25-09/02	Hurricane Harvey	Plains, Southeast	84	800,000+	10s of billions

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/24-01/27	Winter Weather	Canada	2	Hundreds	10s of Millions
03/08	Severe Weather	Canada	1	14,500+	145+ million
03/11	Winter Weather	Canada	0	5,000+	130+ million
04/15-05/10	Flooding	Canada	0	Thousands	Millions
04/20-04/23	Flooding	Jamaica, Haiti, Dominican Republic	2	Thousands	Millions
05/05-05/10	Flooding	Canada	2	Thousands	10s of millions
05/05-05/20	Flooding	Canada	2	5,200+	100s of millions
05/23-05/24	Severe Weather	Canada	0	7,000+	83+ million
06/01	TS Beatriz	Mexico	6	Hundreds	Millions
06/02	Severe Weather	Canada	0	7,000+	50+ million
06/10-06/11	Flooding	Honduras, Guatemala	4	Hundreds	10s of millions
07/07-09/21	Wildfire	Canada	0	2,500+	78+ million
07/12-07/13	Severe Weather	Canada	0	4,000+	42+ million
07/15-07/27	Wildfire	Canada	0	6,000+	110+ million
07/23	Severe Weather	Canada	0	7,000+	86+ million
07/27-07/29	Severe Weather	Canada	0	4,000+	37+ million
08/07-08/10	Hurricane Franklin	Mexico	0	2,000+	Millions
08/28-08/29	Flooding	Canada	0	6,600+	306+ million

## South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-02/01	Wildfire	Chile	11	2,500+	870+ million
01/01-04/01	Flooding	Peru	120	245,000+	3.1+ billion
02/24-02/26	Flooding	Chile	6	Hundreds	Millions
03/17-03/27	Flooding	Colombia	12	Hundreds	Millions+
04/01	Flooding	Colombia	420	2,500+	10s of millions
04/19	Landslide	Colombia	24	100+	Millions
05/26-05/29	Flooding	Brazil	14	Thousands	100+ million
05/24-06/19	Flooding	Uruguay, Argentina	0	Thousands	10s of millions
06/16-06/17	Flooding	Chile	4+	800+	100s of millions

## Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/02-01/13	Winter Weather	Central, Eastern, Southeastern Europe	76	Thousands	10s of millions
01/12-01/13	WS Dieter & Egon	France, Germany	0	25,000+	450+ million
01/18	Earthquake	Italy	30	Hundreds	TBD
01/20-01/24	Severe Weather	Spain, France, Italy	3	Hundreds	Millions
02/03-02/06	EU Windstorms	Spain, France	2	Thousands	Millions+
02/23-02/24	WS Thomas	Western & Central Europe	3	Thousands	475+ million
03/06-03/07	WS Zeus	France	2	Thousands	550+ million
04/19-04/24	Winter Weather	Germany, Austria, Switzerland, Italy	0	Thousands	300+ million
05/29	Severe Weather	Russia	16	Thousands	Millions
06/12	Earthquake	Greece, Turkey	1	1,100+	10s of millions
06/17-06/18	Wildfire	Portugal	64	1,000+	565+ million
06/22-06/25	Severe Weather	Central & Southern Europe	4	Thousands	550+ million
05/01-07/31	Drought	Italy	N/A	N/A	2.3+ billion
07/08-07/08	Flooding	Switzerland	0	6,000+	120+ million
07/17-07/18	Wildfires	Balkans, Portugal, France, Italy	0	Hundreds	Millions
07/21	Earthquake	Greece, Turkey	2	Hundreds	100+ million
07/21-07/27	Severe Weather	Central & Southern Europe	0	Thousands	10s of millions
08/05-08/06	Flooding	Austria, Italy, Balkans	7	Thousands	100+ million
08/10-08/11	Severe Weather	Poland, Czech Republic, Slovakia	6	Thousands	587+ million
08/18-08/19	Severe Weather	Central Europe	5	Thousands	200+ million

## Middle East

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
04/14-04/15	Flooding	Iran	48	Hundreds	353+ million
05/13	Earthquake	Iran	3	Thousands	Millions
07/17-07/18	Flooding	Turkey	0	7,000+	200+ million
07/27	Severe Weather	Turkey	0	22,000+	650+ million
08/11	Flooding	Iran	51	Thousands	35+ million
08/30	Flooding	Yemen	18	Thousands	10+ million

## Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-03/31	Drought	Somalia, Ethiopia, Kenya	100s	N/A	1.9+ billion
01/01-03/31	Flooding	Zimbabwe	271	Thousands	200+ million
01/01-06/01	Drought	South Africa	N/A	N/A	100+ million
01/05-01/12	Flooding	South Africa, Angola	7	5,000+	Millions
02/15-02/16	Cyclone Dineo	Mozambique	7	107,204+	17+ million
03/07	Cyclone Enawo	Madagascar	99	85,000+	20+ million
03/19	Severe Weather	Ghana	19	0	N/A
03/21-03/24	Flooding	Angola	11	5,300+	Millions
05/08-05/16	Flooding	Kenya, Tanzania	33	Thousands	194+ million
06/07-06/08	Severe Wx& Wildfires	South Africa	11	Thousands	500+ million
06/10-06/16	Flooding	Niger, Ivory Coast	27+	700+	10s of millions
07/08-07/09	Flooding	Nigeria	20	Hundreds	5.0+ million
07/10	Flooding	Niger	23	2,405	Millions
08/14	Landslide	Sierra Leone	~1,050	1,100+	Millions
08/16	Landslide	DR Congo	200+	50+	Negligible

## Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-01/31	Flooding	Thailand	96	585,000+	860+ million
01/01-01/23	Flooding	Malaysia	0	Thousands	132+ million
01/01-06/30	Drought	North Korea, South Korea	N/A	N/A	90+ million
01/12-01/16	Flooding	Philippines	11	Hundreds	Unknown
01/16-01/31	Flooding	Philippines	11	1,000+	8.1+ million
01/20	Landslide	China	12	One	Unknown
01/22-01/24	Flooding	Pakistan	5	Hundreds	Unknown
01/24-01/25	Winter Weather	Afghanistan	31	N/A	Unknown
01/25-01/26	Winter Weather	India	11	N/A	Unknown
01/25-01/30	Flooding	Indonesia	1	2,000+	Millions
01/28	Earthquake	China	0	14,000+	55+ million
02/01-02/05	Winter Weather	Afghanistan, Pakistan	159	325+	Unknown
02/09-02/12	Flooding	Indonesia	12	18,000+	Millions+

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
02/10	Earthquake	Philippines	8	7,200+	40+ million
02/17-02/19	Winter Weather	Afghanistan, Pakistan	58	N/A	N/A
01/01-05/01	Drought	Sri Lanka	N/A	N/A	10s of millions
03/01	Severe Weather	China	7	13,700+	28+ million
03/03	Flooding	Indonesia	8	3,482+	19+ million
03/14-03/29	Severe Weather	Thailand	3	6,000+	Millions
03/27	Earthquake	China	0	45,000+	50+ million
03/28-04/15	Flooding	Bangladesh	0	Thousands	352+ million
04/01	Landslide	Indonesia	28	23+	11+ million
04/04-04/09	Earthquake	Philippines	0	5,000+	Millions
04/08-04/10	Severe Weather	China	2	2,300+	36+ million
04/15	TD 02W	Philippines	10	170+	Millions
04/15-04/17	Severe Weather	China	0	3,800+	41+ million
04/20-04/22	Heatwave	India	10	N/A	N/A
04/22	Severe Weather	Pakistan	11	Hundreds	Unknown
04/29	Landslide	Kyrgyzstan	24	11+	Unknown
04/29	Flooding	Indonesia	10	71+	Unknown
05/01-08/31	Drought	China	N/A	N/A	2.5+ billion
05/01	Severe Weather	Bangladesh	12	Unknown	Unknown
05/07-05/20	Flooding	China	17	15,000+	225+ million
05/11	Earthquake	China	8	59,300+	294+ million
05/12-05/15	Flooding	Indonesia	7	5,000+	Millions
05/13-05/15	Severe Weather	China	1	5,000+	147+ million
05/20-05/24	Severe Weather	China	9	20,000+	294+ million
05/25-05/31	Flooding	Sri Lanka	~290	23,000+	197+ million
05/29-05/31	Cyclone Mora	Bangladesh, Myanmar	9	50,000+	100+ million
05/31-06/05	Flooding	China, Taiwan	4	10,100+	368+ million
06/01-06/03	Flooding	Indonesia	4	60,000+	10s of millions
06/05-06/07	Heatwave	India	28	N/A	Unknown
06/09-06/12	Flooding	China	11	11,500+	115+ million
06/10	Severe Weather	Pakistan	15	Hundreds	Millions
06/12-06/13	Flooding	China	1	1,500+	51+ million
06/12-06/13	Flooding	Bangladesh, India	169+	5,000+	10s of millions
06/15-06/21	Flooding	China	9	400+	93+ million
06/21-06/22	Severe Weather	China	2	400+	50+ million
06/23	Landslide	China	83	62+	Millions
06/30-07/04	Flooding	Pakistan	43	Hundreds	Unknown
06/22-07/05	Flooding	China	141	412,600	7.5+ billion
07/04-07/06	TS Nanmadol	Japan	37	2,600+	1.0+ billion
07/06	Earthquake	Philippines	3	3,758+	6.9+ million
07/06-07/11	Severe Weather	China	2	2,100+	67+ million
07/07-07/10	Flooding	Vietnam, Laos	19	Hundreds	1.0+ million
07/07-07/11	Flooding	China	22	18,900+	272+ million
07/08-07/12	Flooding	India, Pakistan, Bangladesh	53	115,000+	100s of millions

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
07/13-07/17	Flooding	China	20	58,100+	4.5+ billion
07/14-07/18	Flooding	China	0	3,200+	33+ million
07/14-07/18	Flooding	India	27	15,000+	450+ million
07/17	Flooding	Afghanistan	36	260+	Millions
07/17-07/18	TS Talas	China, Vietnam, Laos, Thailand	4	4,200+	44+ million
07/17-07/20	Flooding	China	11	3,200+	37+ million
07/18-07/25	Flooding	Thailand, Myanmar	23	12,500+	300+ million
07/19-07/21	Severe Weather	China	12	3,700+	48+ million
07/21-07/26	Flooding	India	53	Thousands	10s of millions
07/22-07/23	Flooding	South Korea	2	2,345+	51+ million
07/23	Earthquake	China	0	8,700+	8.0+ million
07/24-07/28	Severe Weather	China	13	6,500+	171+ million
07/25-07/28	TS Sonca	Vietnam, Laos, Cambodia, Thailand	12	4,176+	Millions
07/29-07/31	TY Nesat & TS Hailang	China, Taiwan, Philippines	1	10,000+	132+ million
08/02-08/03	Flooding	China	4	2,000	60+ million
08/02-08/05	Flooding	China	3	15,000+	327+ million
08/03	Flooding	Vietnam	40	Thousands	88+ million
08/06-08/09	Flooding	China	40	10,000+	315+ million
08/06-08/07	Flooding	Russia	0	2,200+	10s of millions
08/07-08/09	Typhoon Noru	Japan	2	Thousands	100s of Millions
08/08	Earthquake	China	25	72,500+	100s of Millions
08/08-08/09	Severe Weather	China	1	4,200+	17+ million
08/10-08/31	Flooding	Bangladesh	144+	717,600+	10s of millions
08/11-08/31	Flooding	Nepal	159+	235,400+	125+ million
08/11-08/31	Flooding	India	950+	Thousands	10s of millions
08/11-08/16	Flooding	China	18	12,600+	429+ million
08/12-08/13	Severe Weather	China	0	300+	54+ million
08/13	Landslide	India	46	20+	Negligible
08/17-08/20	Severe Weather	China	2	1,700+	46+ million
08/23-08/24	Typhoon Hato	Macau, Hong Kong, China	22	7,300+	3.5+ billion
08/25-08/28	Typhoon Pakhar	China	13	Thousands	56+ million
08/25-09/01	Flooding	China	0	4,700+	90+ million
08/29-08/30	Flooding	India	12	Thousands	500+ million
08/28	Flooding	China	35	Hundreds	2.5+ million
08/31	Flooding	Pakistan	25	Hundreds	1.0+ million
08/31-09/03	Severe Weather	China	2	Hundreds	93+ million

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/20-01/23	Flooding	French Polynesia	0	1,000+	Millions
02/09-02/13	Wildfires	Australia	0	1,200+	10s of Millions
02/09-02/16	Flooding	Australia	2	Thousands	100s of Millions
02/17-02/19	Severe Weather	Australia	1	53,700+	525+ million
03/07-03/12	Flooding	New Zealand	0	7,800+	90+ million
03/28-04/05	Cyclone Debbie	Australia	14	66,000+	2.4+ billion
04/09-04/14	Cyclone Cook	Vanuatu, New Caledonia, New Zealand	1	Thousands	Millions
05/04-05/10	Cyclone Donna	South Pacific Islands, New Zealand	2	Hundreds	Millions
07/21-07/23	Winter Weather	New Zealand	0	Thousands	10s of millions

### 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. Specific events may include modeled loss estimates determined from utilizing Impact Forecasting's suite of catastrophe model products.

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