



# Global Catastrophe Recap

June 2018

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## Executive Summary

- Severe thunderstorms lead to multi-billion-dollar economic cost in the U.S. and Europe
- Strong earthquake in Japan spawns widespread damage; preliminary insured cost USD125 million
- Damage cost from seasonal flooding along China's Yangtze River Basin tops USD1.3 billion

No fewer than eight periods of severe thunderstorms led to widespread convective storm and flash flood damage across the eastern two-thirds of the United States during the month of June. The vast majority of the damage resulted from large hail – up to softball-size in some instances – and damaging straight-line winds that impacted areas in the Rockies, Plains, Midwest, Southeast, and the Northeast. Among the hardest-hit states was Colorado, where separate major hailstorms struck the metro areas of Denver, Boulder, and Colorado Springs. Total combined economic losses from all of the events were anticipated to approach USD4 billion. Insurers were poised to cover more than USD3 billion of the economic cost.

Data from NOAA's Storm Prediction Center highlighted that nearly 5,000 combined reports of tornadoes, hail, and damaging winds were cited in the month of June. That accounted for 45 percent of storm reports during the first six months of 2018.

Major severe weather events were also recorded in parts of Western and Central Europe (notably Germany and France), Brazil, Canada, India, and China.

A USGS-registered magnitude-5.5 earthquake (separately measured at magnitude-5.9 by the Japan Meteorological Agency) struck Japan's Osaka Prefecture on June 18, killing at least four people and injuring more than 434 others. The General Insurance Association of Japan cited that 78,838 claims had already been filed with payouts listed at JPY13.7 billion (USD125 million). Overall economic losses will be much higher.

A large volcanic eruption occurred in Guatemala on June 3, leading to at least 122 fatalities and more than 300 others sustaining injuries. The eruption of Volcán de Fuego spewed ash and molten rock, leading to states of emergency in the departments of Escuintla, Chimaltenango, and Sacatepéquez.

Seasonal rainfall and convective storms associated with the Mei-yu frontal system led to further flooding across China's Yangtze River Basin. China's National Commission for Disaster Reduction (NCDR) cited aggregated seasonal economic losses nearing CNY8.7 billion (USD1.3 billion).

Further seasonal floods in Asia led to dozens of fatalities and economic damage in the hundreds of millions (USD) in parts of India, Bangladesh, Myanmar, and Vietnam.

Other June floods were noted in Romania, Bulgaria, Ivory Coast, Ghana, Nigeria, and New Zealand.

Tropical Storm Ewiniar made landfall in China's Guangdong Province, bringing periods of heavy rainfall and gusty winds. At least 14 people were left dead or missing. The NCDR cited total economic losses of at least CNY3.67 billion (USD570 million).

Drought conditions in China's Inner Mongolia led to at least USD91 million in agricultural damage.

Significant wildfires burned across many areas of the Western US at the end of June into July, as hundreds of homes and other structures were destroyed.

## United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
06/03-06/07	Severe Weather	Plains, Midwest, Southeast	0	80,000+	825+ million
06/11-06/13	Severe Weather	Rockies, Plains	0	70,000+	730+ million
06/13-06/14	Severe Weather	Northeast	0	2,000+	75+ million
06/17-06/20	Severe Weather	Rockies, Plains, Midwest	0	150,000+	1.4+ billion
06/19-06/21	Flooding	Texas	0	Hundreds	Millions
06/23-06/26	Severe Weather	Central/Eastern U.S.	0	Thousands	100s of Millions
06/23-07/10	Wildfires	West	0	Hundreds+	100s of Millions
06/27-06/29	Severe Weather	Plains, Midwest, Southeast	1	Thousands	100s of Millions
06/29-07/01	Severe Weather	Plains, Midwest	1	Thousands	100+ million

A significant hail event led to extensive damage in the greater Dallas – Fort Worth metropolitan region in Texas during the early morning of June 6. Hail larger than the size of baseballs swept through Denton, Collin, Dallas, and Tarrant counties during the early morning hours and left a major swath of shattered windows, dented roofs, and damaged siding of homes, businesses and vehicles. Total economic losses were estimated at USD825 million, while public and private insurers cited minimal payouts of nearly USD650 million. These estimates were likely to rise.

Multiple rounds of severe thunderstorms left notable damage in parts of the Rockies and Plains from June 11-13. The most significant impacts occurred in parts of Colorado, Kansas, Oklahoma, and Texas as hail larger than baseballs was recorded. Straight-line winds and isolated tornado touchdowns were also confirmed. Most damage occurred due to shattered windows, dented roofs and impacts to siding of homes, businesses, and vehicles. Total economic losses were estimated at nearly USD730 million. Public and private insurers, mostly in Colorado, cited insurance payments approaching USD575 million.

Powerful thunderstorms in association with an advancing cold front led to widespread damage across portions of the Northeast. The worst damage occurred in Pennsylvania, where a high-end EF2 tornado struck the town of Wilkes-Barre and left considerable impacts. Another EF2 twister in Pennsylvania tracked through Bradford County. Other damage from the storms was noted into parts of New York. Total economic losses were estimated around USD75 million.

Several days of severe weather led to extensive damage across parts of the United States from June 17-20. The most prolific impacts occurred in the Rockies and Plains, where hail larger than the size of baseballs left severe damage to homes, businesses, and vehicles across the greater Denver, Colorado metro region on June 18-19. Additional damage resulting from straight-line winds and isolated tornado touchdowns was noted throughout the Northeast, and flash flooding left at least three people dead in the Midwest. Total combined economic losses from the U.S. convective storms were estimated at USD1.4 billion, with roughly USD1.1 billion covered by insurance.

Torrential rainfall from a non-organized tropical disturbance led to considerable flooding across parts of Texas from June 19-21. Rainfall totals of up to 20 inches (508 millimeters) led to several rivers overflowing their banks and torrents of fast-moving floodwaters to inundate coastal areas from Beaumont to Corpus Christi. Many of these locations were impacted by Hurricane Harvey in 2017. Total economic and insured losses were estimated well into the millions (USD).

An active pattern led to widespread severe thunderstorms across the eastern two-thirds of the United States from June 23-26. The most significant damage occurred in an area covering the Rockies, Plains, Midwest, and Southeast as large hail (up to the size of baseballs) and damaging straight-line winds gusting to 80 mph (130 kph) impacted each region. Dozens of suspected tornado touchdowns also occurred, including an EF3 tornado that tore through the town of Eureka, Kansas. Total economic and insured losses are likely to each well exceed USD100 million.

Multiple wildfires were ignited on both coasts of the United States between the end of June into July. The most significant were recorded in Northern California, Colorado, Utah, and the Florida Panhandle. The largest fire in California was Pawnee Fire, which burned nearly 15,000 acres (6,070 hectares) in Lake County. The fire destroyed 22 structures. The most destructive was the Spring Creek Fire in Colorado that destroyed at least 130 homes in one neighborhood alone. At least 36 homes were also destroyed by a wildfire near Apalachicola, Florida on June 24. The total economic cost – including physical damage and firefighting costs – was likely to approach USD100 million.

Widespread severe thunderstorm activity – associated with a known “Ring of Fire” pattern – led to storm damage from the Plains to the Southeast from June 27-29. At least one person was killed. The stretch was marked by separate derecho events on June 28 that left a significant swath of straight-line wind damage from Nebraska to the Florida panhandle. Separately, hail larger than baseballs impacted parts of the Dakotas and Minnesota. Total economic and insured losses were estimated to reach into the hundreds of millions (USD).

## Remainder of North America (Non-US)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
06/03	Volcano	Guatemala	122	Thousands	Millions
06/13	Severe Weather	Canada	0	Unknown	10s of Millions
06/14	Severe Weather	Canada	0	Unknown	Millions
06/28-06/30	Severe Weather	Canada	0	Thousands	Millions

A large volcanic eruption occurred in Guatemala on June 3, leading to at least 122 fatalities and more than 300 others sustaining injuries. The volcano – named Volcán de Fuego (Volcano of Fire) – has had more than 60 known eruptions since 1524, though the current eruption is thought to be the worst since 1972. The eruption spewed ash and molten rock into several villages, notably El Rodeo, Las Lajas, and San Miguel Los Lotes, as pyroclastic flows destroyed everything in its path. A state of emergency was declared in the departments of Escuintla, Chimaltenango, and Sacatepéquez.

Clusters of severe thunderstorms swept across portions of Canada’s Ontario province on June 13, leading to widespread damage. The worst damage was noted between the communities of London and Kingston, where nearly 50,000 people lost electricity. A confirmed EF2 tornado with up to 180 kph (112 mph) winds was confirmed from Waterford to Jarvis. Total economic losses from the storms was estimated to reach into the tens of millions (USD).

Widespread severe thunderstorms swept across portions of Canada’s Saskatchewan and Manitoba provinces on June 14. Significant damage was noted in multiple communities as hail the size of softballs, winds gusting beyond 100 kph (65 mph), and isolated flash flooding occurred. The most prolific impacts was cited to homes and vehicles, including around the greater Winnipeg metro region. Total economic and insured losses were likely to reach well into the millions (USD).

Powerful thunderstorms caused damage across parts of Canada's Saskatchewan, Manitoba, and Quebec provinces from June 28-30. An advancing frontal boundary prompted periods of large hail and damaging straight-line winds in southern sections of each province. Isolated flash flooding also occurred. Total economic and insured losses were anticipated to reach into the tens of millions (USD).

## South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
06/12	Severe Weather	Brazil	2	2,630+	Millions

A powerful F4 tornado with up to 300 kph (185 mph) winds tore through portions of Brazil's Rio Grande do Sul state on June 12. Two people were killed and several others were injured. State officials reported that 24 towns were affected by the event, with more than 2,630 homes damaged or destroyed and extensive impacts reported to local infrastructure. The twister was also blamed the deaths of 220,000 chickens in the town of Água Santa. Total economic losses were estimated well into the millions (USD).

## Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
06/01-06/07	Severe Weather	Central & Western Europe	2	Thousands	150+ million
06/08-06/13	Severe Weather	Central, Western & SE Europe	6	Thousands	100s of Millions
06/28-06/29	Flooding	Romania, Bulgaria, Ukraine	3	2,000+	Millions

A prolonged stretch of severe weather left widespread wind, hail and isolated flood damage across several European countries in during the first week of June. The most prominent feature of these storms was intense, but isolated rainfall that caused numerous instances of pluvial flooding across Germany, Netherlands, Luxembourg, Czech Republic, Austria and elsewhere. Damage from hail was less significant. Total economic and insured losses were expected to reach into the tens of millions EUR.

Multiple severe weather events occurred across Europe from June 8-13. Among the most significant was a hailstorm in Slovenia and Croatia on June 8, which produced hailstones larger than 10 centimeters (3.9 inches). Multiple small-scale pluvial flooding events were again recorded in France, Germany, Austria, Czech Republic, and Switzerland, while flooding and hail in Serbia caused an estimated economic loss of USD60 million on June 13. The inclement weather resulted in at least six deaths from three separate incidents. Aggregated losses related to severe weather are expected to reach into the hundreds of millions EUR.

Consecutive days of heavy rainfall and severe thunderstorms between June 27-29 led to widespread flooding across parts of Bulgaria, Romania and Ukraine. More than 1,000 homes were inundated and dozens of roads and bridges sustained damage as rivers overflowed. Total economic losses were estimated to reach into the millions EUR.

## Middle East

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
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No significant natural disaster events occurred in South America during the month of June.

## Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
06/18-06/29	Flooding	Ivory Coast, Ghana, Nigeria	38	Thousands	Millions

Torrential rain of monsoonal nature continued to affect countries along the coast of the Gulf of Guinea. Between June 18-19, metropolitan areas of Ivory Coast, Ghana and Nigeria were inundated, which resulted in notable material damage and deaths of at least 33 people. A separate flash flood event triggered by heavy rainfall on June 28-29 claimed five more lives in Kumasi, Ghana. The financial impact of these events is likely to be negligible.

## Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
05/07-07/10	Flooding	China	108	150,000+	1.3+ billion
06/01-06/30	Drought	China	N/A	Unknown	91+ million
06/01-06/06	Severe Weather	India	42	Hundreds	Millions
06/06-06/07	Severe Weather	China	2	800+	31+ Million
06/02-06/07	TS Ewiniar	Vietnam, China	15	5,400+	573+ Million
06/09-06/12	Severe Weather	China	0	Thousands	91+ Million
06/08-06/12	Severe Weather	India	61	16,000+	100+ million
06/05-06/14	Flooding	Bangladesh, Myanmar	26	1,540+	Unknown
06/12-06/21	Severe Weather	China	2	12,000+	317+ million
06/18	Earthquake	Japan	4	78,838	500+ million
06/23-06/27	Flooding	Vietnam	33	3,342+	23+ million
06/24-07/03	Flooding	India	52	Hundreds	Millions

Seasonal rainfall and convective storms associated with the Mei-yu frontal system led to further flooding across China's Yangtze River Basin during the month of June. This was a continuation of flooding that began in May. The combined death toll from the floods topped 100, as inundation impacted nearly 150,000 homes and upwards of 1.5 million acres (607,000 hectares) of cropland. The worst-affected provincial regions included Sichuan, Gansu, Chongqing, Hubei, Jiangsu, Guizhou, Anhui, Shaanxi, Henan, and Fujian. China's National Commission for Disaster Reduction cited aggregated economic losses nearing CNY8.7 billion (USD1.3 billion).

Inner Mongolia was affected by persistent drought conditions in the month of June with up to 25% less rainfall and 1°C higher temperatures than previous years. According to the Chinese Department of Agriculture, 40 percent of the province was under the influence of the prolonged dry period which affected at least 37 million hectares (91 million acres) of grassland. Total economic losses were estimated at CNY600 million (USD91 million).

A series of thunderstorms impacted multiple states of India from June 1-6. A combined 42 people were killed in Uttar Pradesh, Kerala, Maharashtra, Mizoram, and Rajasthan as powerful wind gusts beyond 100 kph (65 mph) and torrential rains uprooted trees, toppled electricity poles, and collapsed houses. Landslides led to even further impacts.

Convective weather in China's Gansu Province led to periods of large hail and flooding rains on June 6-7. The inclement weather damaged at least 3,300 hectares (8,150 acres) of crops including corn, soybean, and potatoes. At least two people were killed as nearly 1,000 homes were damaged or destroyed. Total economic losses were estimated at CNY200 million (USD31 million).

Tropical Storm Ewiniar made landfall in China's Guangdong Province on June 6, bringing periods of heavy rainfall and gusty winds across southern sections of the country. At least 14 people were left dead or missing due to flood-related incidents. More than 5,400 homes were damaged or destroyed in Guangdong, Jiangxi, Fujian, and Zhejiang provinces, and Hainan Island, and 97,100 hectares (239,930 acres) of land were also damaged. The Ministry of Civil Affairs (MCA) cited total economic losses of at least CNY3.67 billion (USD570 million). Additional rainfall resulting from Ewiniar's outer bands led to heavy rain and flooding in Vietnam, where at least one person was killed.

Severe convective weather from June 9-12 caused heavy rainfall and hailstorms across northern China. The inclement weather affected nearly 92,600 hectares (229,000 acres) of crops including corn, wheat, soybeans, apples and pepper. Gansu was the worst affected region, where nearly 68,600 hectares (170,000 acres) of crops were damaged. Hebei, Shanxi, Shaanxi and Ningxia provinces also suffered damage. The total economic loss was estimated to be CNY580 million (USD91 million).

Severe convective weather associated with the onset of monsoon season caused widespread damage in India from June 8-12. At least a combined 61 people were killed in various events in parts of Uttar Pradesh, West Bengal, Assam, Tripura, Manipur, and Mizoram. Most of the casualties and damage was due to lightning, dust storms, flash flooding, and landslides. Total economic losses were expected to well exceed USD100 million, as local officials in Assam alone cited damage costs of at least INR3.4 billion (USD50 million).

Torrential rainfall tied to the start of monsoon season led to significant flooding and casualties across parts of Bangladesh and Myanmar. At least 14 people died in Bangladesh following dozens of landslides that affected Cox's Bazar and Rangamati. More than 1,500 refugee shelters were destroyed. In Myanmar, the worst damage occurred in the Sagaing Region as landslides destroyed dozens of buildings and left at least 12 people dead.

A USGS-registered magnitude-5.5 earthquake (separately measured at magnitude-5.9 by the Japan Meteorological Agency) struck Japan's Osaka Prefecture on June 18, killing at least four people and injuring more than 434 others. The tremor occurred at a depth of 15.4 kilometers (9.6 miles) with an epicenter near Takatsuki, Japan. Data from Japan's Fire and Disaster Management Agency indicated that nearly 30,000 structures had been damaged or destroyed, primarily in Osaka Prefecture and Kyoto. The General Insurance Association of Japan cited that 78,838 claims had already been filed with payouts listed at JPY13.7 billion (USD125 million). Overall economic losses will be much higher.



Heavy rains associated with a low-pressure trough triggered flash flooding and landslides in mountainous regions of Northern Vietnam from June 23-27. Officials from the Steering Committee on Natural Disaster Prevention and Control (NDPC) reported at least 3,342 homes reporting various levels of flood inundation damage. More than 2,100 hectares (5,189 acres) of crops were damaged, mostly in Lai Châu. Authorities confirmed 33 people dead or missing, and another 18 injured. Some infrastructural damage was also reported due to landslides. Total economic damage was preliminary estimated at VND536 billion (USD23 million).

Heavy monsoonal rain affected large parts of India from June 22-July 3, killing a total of at least 52 people. The hardest-hit areas included the states of Assam, Maharashtra and Gujarat as floodwaters inundated roads, structures, and vehicles. Widespread crop damage also occurred.

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

<b>Date</b>	<b>Event</b>	<b>Location</b>	<b>Deaths</b>	<b>Structures/ Claims</b>	<b>Economic Loss (USD)</b>
06/11	Flooding	New Zealand	0	Unknown	10s of Millions

A strong subtropical low brought heavy rainfall to parts of New Zealand on June 11. At least 6 stations recorded more than 100 millimeters (3.94 inches) of rainfall in under 24 hours, leading to floods in the Gisborne and Hawk's Bay regions. Most damage resulted to local infrastructure, farms, and forestry; areas which were impacted by a previous storm a week prior. The Gisborne District Council estimated that the cost of clearing the forestry debris in the area alone will exceed NZD10 million (USD7 million). Overall economic losses will be even higher.

## Appendix

### Updated 2018 Data: January-May

#### United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/03-01/05	Winter Weather	Eastern & Central U.S.	22	60,000+	1.1+ billion
01/08-01/09	Flooding	California	21	6,500+	850+ million
01/14-01/17	Winter Weather	Plains, Midwest, Northeast, Southeast	16	Thousands	Millions
01/21-01/24	Winter Weather	Plains, Midwest	10	Hundreds	Millions
02/03-02/07	Winter Weather	Plains, Midwest, Northeast	7	Thousands	50+ million
02/07-02/10	Winter Weather	Plains, Midwest, Northeast	5	Thousands	50+ million
02/19-02/22	Flooding	Plains, Midwest, Southeast	10	25,000+	400+ million
02/23-02/27	Severe Weather	Plains, Midwest, Southeast	5	15,000+	175+ million
03/01-03/03	Winter Weather	Northeast	9	315,000+	2.25+ billion
03/07-03/08	Winter Weather	Northeast	1	60,000+	525+ million
03/12-03/15	Winter Weather	Northeast	0	Thousands	Millions
03/18-03/21	Severe Weather	Plains, Southeast, Northeast	0	100,000+	1.35+ billion
03/21-03/22	Flooding	California	0	Hundreds	Millions
04/03-04/04	Severe Weather	Plains, Midwest, Southeast	1	40,000+	335+ million
04/06-04/07	Severe Weather	Texas, Louisiana, Mississippi	0	80,000+	725+ million
04/07	Severe Weather	Idaho	0	12,500+	125+ million
04/13-04/17	Severe Weather	Plains, Midwest, Southeast, Northeast	6	110,000+	1.25+ billion
04/14-04/15	Flooding	Hawaii	0	1,000+	125+ million
04/17-04/18	Severe Weather	Rockies, Plains	0	20,000+	135+ million
04/22-04/23	Severe Weather	Southeast	0	Thousands	Millions
04/30-05/03	Severe Weather	Plains, Midwest	0	100,000+	950+ million
05/03-06/30	Volcano	Hawaii	0	Hundreds+	Millions
05/12-05/16	Severe Weather	Rockies, Plains, Midwest, Northeast	5	115,000+	1.4+ billion
05/13-05/15	Flooding	Florida	0	Hundreds	Millions
05/19-05/20	Severe Weather	Plains, Midwest	0	28,750+	375+ million
05/28-06/01	Severe Weather	Rockies, Plains, Midwest, Mid-Atlantic	1	40,000+	350+ million
05/27-05/28	Flooding	Maryland	1	5,000+	100+ million
05/27-05/30	STS Alberto	Southeast, Midwest	5	10,000+	125+ million

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/11-01/14	Flooding	Canada	0	5,000+	90+ million
02/16	Earthquake	Mexico	0	18,000+	Millions
02/19-02/22	Flooding	Canada	0	Thousands	75+ million
04/04-04/05	Winter Weather	Canada	0	15,000+	115+ million
04/14-04/17	Winter Weather	Canada	0	15,000+	250+ million
04/26-05/17	Flooding	Canada	0	Hundreds	10s of Millions
05/04-05/05	Severe Weather	Canada	3	65,000+	425+ million
05/26-05/29	STS Alberto	Cuba	7	Thousands	Millions+

## South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/14	Earthquake	Peru	2	2,541+	Millions
01/29-02/08	Flooding	Bolivia, Argentina	7	Thousands	138+ million
02/09	Severe Weather	Argentina	0	Thousands	Millions
02/15-02/21	Flooding	Brazil	4	Thousands	10s of Millions
01/01-03/31	Drought	Uruguay	N/A	N/A	500+ million
01/01-03/31	Drought	Argentina	N/A	N/A	3.4+ billion
03/20-03/21	Flooding	Brazil	3	Thousands	43+ million
03/12-04/17	Severe Weather	Colombia	14	Unknown	Millions

## Europe

Date	Event	Location	Deaths	Structures / Claims	Economic Loss (USD)
01/01-01/04	WS Eleanor & Carmen	Western & Central Europe	7	200,000+	1.3+ billion
01/06-01/07	Severe Weather	Spain	0	Hundreds	60+ million
01/08	Earthquake	Netherlands	0	3,000+	Millions
01/18	WS Friederike	Western & Central Europe	13	100,000+	2.75+ billion
01/20-02/01	Flooding	France	0	30,000+	500+ million
02/23-03/02	Winter Weather	Western, Central & Eastern EU	88	Thousands	100s of Millions
03/09-03/14	WS Felix & Gisele	Portugal, Spain	0	Hundreds	10s of Millions
03/28	Flooding	Russia	2	1224	Unknown
03/25-04/05	Flooding	Greece, Turkey, Bulgaria	15	Thousands	Millions
04/29	Severe Weather	Germany, France, Belgium	0	Thousands	10s of Millions
05/10-05/16	Severe Weather	Central Europe	0	Thousands	10s of Million
05/25-05/31	Severe Weather	Western & Central Europe	1	30,000+	500+ million

## Middle East

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/19-01/20	Winter Weather	Lebanon	15	N/A	Negligible
02/16-02/18	Flooding	Turkey, Iran, Iraq, Lebanon	3	Hundreds	Millions
03/07	Earthquake	Iran	0	5,500+	Millions
03/24	Severe Weather	Turkey	0	Thousands	Millions
04/25-04/26	Flooding	Israel	11	Hundreds	Millions
05/17-05/21	Flooding	Tajikistan	6	1,145+	Millions
05/23-05/27	TS Mekunu	Yemen, Oman, Saudi Arabia	30	5,000+	400+ million

## Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-05/31	Drought	South Africa	N/A	N/A	1.2+ billion
01/03-01/07	Flooding	Democratic Republic of Congo	51	465	Millions
01/12-01/13	CY Ava	Madagascar	73	4,800+	Millions
01/15-01/18	CY Berguitta	Mauritius, La Reunion	0	Thousands	10s of Millions
01/16-01/22	Flooding	Mozambique	11	15,000+	5.1+ million
02/07-02/09	Flooding	Malawi	1	2,000+	Unknown
02/22-03/07	Flooding	Angola, Malawi, Rwanda	8	6,500+	Millions
03/17-03/18	CY Eliakim	Madagascar	21	17,228+	Millions
03/22-03/23	Flooding	South Africa, Lesotho	7	Thousands	Millions
01/01-05/31	Flooding	Rwanda	134	6,000+	28+ million
03/14-05/31	Flooding	Kenya	226	Thousands	350+ million
03/14-05/31	Flooding	Uganda	N/A	Thousands	150+ million
04/01-05/31	Flooding	Somalia	5	Thousands	80+ million
04/14-04/16	Flooding	Tanzania	15	Hundreds	Unknown
04/14-04/17	Flooding	Ethiopia	2	Thousands	Millions
04/24	TS Fakir	Réunion	2	Hundreds	18+ million
05/19	TS Sagar	Somalia, Djibouti, Yemen	55	Thousands	Millions
05/28	Flooding	Ethiopia	23	Unknown	Unknown

## Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-01/07	Winter Weather	India, Nepal	94	N/A	Negligible
01/02-01/05	Winter Weather	China	21	3,500+	854+ million
01/13-01/17	Flooding	Philippines	11	1,900+	Millions
01/21-01/25	Winter Weather	Japan, China	5	Unknown	Millions
01/23	Earthquake	Indonesia	0	9,291+	Millions
01/24-01/29	Winter Weather	China	2	2,500+	1.1+ billion
02/03-02/12	Flooding	Malaysia	0	Hundreds	Millions
02/05-02/06	Flooding	Indonesia	4	7,228+	Millions
02/06	Earthquake	Taiwan	17	Thousands	100+ million
02/12-02/14	TS Sanba	Philippines	0	2,000+	<10 million
02/21-02/23	Flooding	Indonesia	20	20,000+	Millions
03/03	Severe Weather	China	14	59,000+	147+ million
03/10	Wildfire	India	17	N/A	N/A
03/15-03/18	Severe Weather	China	5	2,000+	50+ million
03/22-03/26	Flooding	Indonesia	3	1,092+	Unknown
03/29	Severe Weather	China	0	200+	30+ million
04/02-04/18	Winter Weather	China	0	Thousands	1.5+ billion
04/11	Severe Weather	India	42	Thousands	100+ million
04/17	Severe Weather	India	18	4,446+	100+ million
04/19-04/25	Severe Weather	China	1	2,200+	91+ million
04/29-04/30	Severe Weather	Bangladesh	33	Unknown	Unknown
05/02-05/03	Severe Weather	India	143	Thousands	24+ Million
05/06-05/09	Severe Weather	India	32	4,200+	Millions
05/07-05/15	Flooding	Afghanistan, Pakistan	78	Thousands	Millions
05/07-05/14	Flooding	China	2	2,000+	31+ million
05/12-05/17	Severe Weather	China	2	2,000+	67+ Million
05/13-05/16	Severe Weather	India	95	Hundreds	Millions+
05/17-05/20	Flooding	India	6	2,422+	10+ Million
05/28-05/29	Severe Weather	India	54	Thousands	Millions
05/28	Earthquake	China	0	15,900+	7+ Million
05/29-05/31	Flooding	India	12	1,000+	Millions+
05/29-05/30	Severe Weather	Myanmar	5	1,400+	Unknown

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/04-01/07	Flooding	New Zealand	0	3,600+	50+ million
01/31-02/02	Flooding (Fehi)	New Zealand	0	Thousands	50+ million
02/09-02/20	CY Gita	Tonga, Fiji, Samoa, New Zealand	1	10,000+	225+ million
02/18-02/20	TS Kelvin	Australia	0	4,000+	25+ million
02/26	Earthquake	Papua New Guinea	160	Thousands	190+ million
03/03	CY Hola	Vanuatu, N. Caledonia, NZ	3	Unknown	Unknown
03/05-03/08	Earthquake	Papua New Guinea	36	Unknown	Millions
03/09-03/11	Flooding	Australia	0	2,000+	40+ million
03/17-03/19	Wildfire	Australia	0	1,039+	90+ million
03/17	CY Marcus	Australia	0	6,218+	75+ million
03/24-03/27	CY Nora	Australia	0	2,000+	25+ million
03/31	CY Josie	Fiji	6	Unknown	10+ million
04/10	CY Keni	Fiji	0	804+	
04/10-04/11	Severe Weather	New Zealand	0	12,523+	87+ million
04/27-04/29	Flooding	New Zealand	0	2,000+	25+ million
05/10-05/14	Flooding	Australia	0	7,912+	110+ million

### 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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