

December 2013 Global Catastrophe Recap



Table of Contents

Executive Summary	3
United States	4
Remainder of North America (Canada, Mexico, Caribbean, Bermuda)	4
South America	5
Europe	5
Africa	6
Asia	6
Oceania (Australia, New Zealand and the South Pacific Islands)	7
Appendix	8
Contact Information	16

Executive Summary

- Windstorms Xaver and Dirk combine to cause more than USD2.25 billion in economic damages across Europe
- Winter storms cause significant damage and leave dozens dead in the United States and Canada
- Southeastern Brazil endures its worst flooding in decades; 48 people killed

A series of windstorms tracked across Europe during December, including two strong events: Xaver and Dirk.

Windstorm Xaver moved through Northern Europe, leaving at least 15 people dead and dozens of others injured. The storm brought hurricane-force winds approaching 160 kph (100 mph), heavy rains, thunderstorms, and some of the highest recorded coastal storm tides in decades from the United Kingdom to Scandinavia. Damage was heaviest in Scotland, Germany, the Netherlands, Belgium, Scandinavia, and Poland. Insured losses were estimated at roughly EUR800 million (USD1.1 billion). Total economic losses were even higher.

Windstorm Dirk brought very gusty winds and heavy precipitation to Western and Northern Europe, killing at least six people. Damage was the most significant in the United Kingdom, France and Spain, where winds gusted up to 150 kph (90 mph) and rivers overflowed. Additional damage was cited in Poland and parts of Scandinavia. Total insured losses were tentatively estimated around EUR360 million (USD500 million). Total economic losses were even higher.

Stretches of inclement winter weather also affected North America. An initial period saw a broad storm system sweep across the entire United States that killed at least 18 people. The worst impacts were felt in an area from the southern Plains to New England as the storm brought heavy snow, accumulating ice, rain, and gusty winds. Total economic losses were estimated beyond USD100 million, with insured losses listed in Texas alone at USD30 million.

Another major winter storm affected the central and eastern U.S. as well as eastern Canada, killing a combined 29 people. In the U.S., heavy snow, freezing rain and ice left widespread damage and power outages in the Midwest, Ohio Valley and New England. Severe weather (including more than a dozen tornado touchdowns) and flooding rains occurred across the southern Plains and the Southeast. Total economic and insured losses in the U.S. were listed in the hundreds of millions (USD). The same system caused a major ice storm in Canada's Toronto metropolitan region. Total economic and insured losses in Canada were also estimated in the hundreds of millions (USD).

One of the strongest winter storms in years affected the Middle East. At least 10 fatalities were blamed on the storm as it affected parts of Israel, Egypt, Syria, Jordan, Lebanon, the Palestinian Territories, and Cyprus. Total combined economic losses were estimated at USD500 million.

Some of the worst flooding in 90 years affected parts of southeastern Brazil, killing at least 48 people. The hardest-hit areas came in the states of Espirito Santo and Minas Gerais, where several rivers burst their banks and caused significant flash flooding. Heavy infrastructure impacts were noted as well, with nearly 20,000 kilometers (12,500 miles) of roads damaged. The Brazilian government allocated BRL3.2 billion (USD1.4 billion) for flood recovery.

Heavy snow and rain affected China's provincial regions of Hainan, Yunnan and Sichuan. No fatalities were reported, though 90,000 people were left homeless following flood inundation or the collapse of roofs due to the weight of snow and ice. Total economic losses were listed by the Ministry of Civil Affairs (MCA) at CNY2.5 billion (USD410 million).

Seasonal monsoon rains caused floods that inundated eastern Malaysia, killing four people. The floods forced the evacuation of more than 75,000 people from their homes in the states of Pahang, Johor, Terengganu, and Kelantan. Total economic losses were estimated well into the millions of dollars (USD).

Additional floods were registered in Cuba, the Leeward Islands, and Indonesia.

Cyclone Christine made landfall in Western Australia near the town of Whim Creek, bringing periods of heavy rainfall, gusty winds and a minor storm surge to coastal locations. Only minor damage was reported.

United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
12/1-12/10	Winter Weather	United States	18	Thousands+	100+ million
12/19-12/22	Winter Weather	Midwest, Southeast, Northeast	19	Thousands+	100s of Millions

A prolonged stretch of inclement winter weather affected much of the United States between the 1st and 9th, killing at least 18 people. The worst impacts were felt in an area from the southern Plains to New England as the storm brought heavy snow, accumulating ice, rain, and gusty winds. Damage was widespread in the hardest-hit areas, with ice leading to fallen tree branches and power lines. Thousands of flights were cancelled nationwide and dangerous driving conditions on roadways forced interstate closures. Frigid air behind the system left temperatures more than 40 degrees (F) below normal throughout the West and Northern Plains, which threatened California's citrus crop. Total economic losses were estimated beyond USD100 million, with insured losses listed in Texas alone at USD30 million.

A strong winter storm caused widespread damage throughout much of the central and eastern U.S. between the 19th and 22nd, killing at least 19 people. The Midwest, Ohio Valley and parts of northern New England dealt with heavy snow, freezing rain and ice as tree branches and power lines snapped under the excess weight. Ahead of the main frontal boundary in the storm's warm sector, severe thunderstorms led to at least 13 tornado touchdowns across Arkansas, Louisiana, Mississippi and Kentucky. Heavy rainfall also caused flash flooding and rivers to overflow their banks in several states as well. Total economic and insured losses were estimated in the hundreds of millions (USD).

Remainder of North America (Canada, Mexico, Central America, Caribbean Islands, Bermuda)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
11/28-12/1	Flooding	Cuba	2	1,000+	Unknown
12/1-12/3	Winter Weather	Canada	0	Thousands+	Millions+
12/20-12/23	Winter Weather	Canada	10	Thousands+	100s of Millions
12/24-12/25	Flooding	Leeward Islands	9	1,000+	10+ million

Heavy rains caused flooding in six districts in the Cuban capital of Havana during the end of November into early December, killing at least two people. Hundreds of homes and other structures were damaged or destroyed, and the floods forced the closure of several main thoroughfares. Elsewhere, additional flooding damaged hundreds of homes from the western province of Artemisa to the central province of Ciego de Avila.

A winter storm affected the Canadian province of Alberta between the 1st and 3rd, bringing blizzard conditions to both the greater Calgary and Edmonton metropolitan regions. Up to 40 centimeters (15.75 inches) of snow and winds gusting to 80 kph (50 mph) led to snow drifts several meters (feet) high. Property damage was sporadic, though heavy impacts were felt on roadways as hundreds of multi-vehicle accidents occurred due to snow and ice.

Heavy snow and ice left significant impacts across multiple Canadian provinces, including Ontario, Quebec, and New Brunswick between the 20th and 23rd. At least 10 people were killed. Widespread damage was noted to residential and commercial properties (in addition to vehicles), primarily due to downed trees and power lines that could not withstand the weight of the ice and snow in the greater Toronto metropolitan region. The inclement weather made driving conditions hazardous, with law enforcement officials closing stretches of roadways due to snow and ice. Total economic and insured losses were estimated in the hundreds of millions (USD).

An active weather pattern brought torrential rainfall across the Leeward Islands on the 24th and 25th, as floods left at least nine people dead. The hardest-hit island was St. Vincent and the Grenadines, where eight of the fatalities were recorded. The heavy rains sparked flash flooding and landslides that damaged or destroyed hundreds of homes. Total economic losses were estimated by the government “well” into the millions of dollars (USD). Elsewhere, heavy rains also led to the death of one person on St. Lucia. Also, hundreds of homes and structures were inundated on Dominica.

South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
12/3	Severe Weather	Argentina	4	Hundreds+	Millions+
12/7-12/11	Flooding	Brazil	19	1,000+	Millions+
12/15-12/31	Flooding	Brazil	48	15,000+	1.4+ billion

Powerful thunderstorms swept across parts of Argentina on the 3rd, killing at least four people and injuring dozens of others. The storms spawned tornadoes, damaging straight line winds, and large hail. One of the hardest-hit areas came in the Buenos Aires provincial region of Chivilcoy, where a tornado damaged or destroyed nearly every home in the small town. Additional storm damage was sustained in the towns of Banfield and Villa del Rosa.

Torrential rains fell across multiple drought-stricken regions of northeastern Brazil between the 7th and 11th, spawning flash floods that killed at least 19 people. The most significant damage occurred in the town of Lajedinho in Bahia state, where two months’ worth of rain destroyed hundreds of homes. Additional flood damage was recorded in Rio de Janeiro and the nearby state of Minas Gerais.

Some of the worst flooding in 90 years affected parts of southeastern Brazil during the second half of December, killing at least 48 people. The hardest-hit areas came in the states of Espiritu Santo and Minas Gerais, where several rivers burst their banks and caused significant flash flooding. Officials in Espiritu Santo declared states of emergency for 52 cities, while an additional 26 cities were under a state of emergency in Minas Gerais. Heavy infrastructure impacts were noted as well, with nearly 20,000 kilometers (12,500 miles) of roads damaged. The Brazilian government allocated BRL3.2 billion (USD1.4 billion) for flood recovery.

Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
12/4-12/7	WS Xaver	Northern Europe	15	Thousands+	1.5+ billion
12/11-12/14	Winter Weather	Middle East	10	10,000+	500+ million
12/23-12/25	WS Dirk	Western/Northern Europe	6	Thousands+	750+ million

Windstorm Xaver tracked across Northern Europe between the 4th and 7th, leaving at least 15 people dead and dozens of others injured. The storm brought hurricane-force winds approaching 160 kph (100 mph), heavy rains, thunderstorms, and some of the highest recorded coastal storm tides in decades from the United Kingdom to Scandinavia. Damage was heaviest in Scotland, Germany, the Netherlands, Belgium, Scandinavia, and Poland, and more than 650,000 power outages occurred. The storm also led to significant suspension of flight and rail service. Insured losses were estimated at roughly EUR800 million (USD1.1 billion). Total economic losses were even higher.

Winter weather swept across the Middle East between the 11th and 14th, bringing heavy precipitation and the coldest temperatures in years to several countries. At least 10 fatalities were blamed on the storm. Israel, Egypt, Syria, Jordan, Lebanon, the Palestinian Territories, and Cyprus all reported impacts as up to 1.0 meter (3.3 feet) of snow fell in isolated locations. Flooding rains, high surf, and gusty winds also led to widespread electrical and transportation infrastructure and agricultural damage. Total combined economic losses were estimated at USD500 million.

Windstorm Dirk brought very gusty winds and heavy precipitation to Western and Northern Europe between the 23rd and 25th. At least six people were killed. Damage was the most significant in the United Kingdom, France and Spain, where winds gusted up to 150 kph (90 mph) and flooding occurred due to overflowing rivers. More than 750,000 power outages were registered. Additional damage was cited in Poland and parts of Scandinavia. Beyond property damage, Dirk was responsible for significant travel delays and cancellations throughout Europe. Total insured losses were tentatively estimated around EUR360 million (USD500 million). Total economic losses were even higher.

Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
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No major natural disaster events were recorded during the month of December.

Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
12/1-12/10	Flooding	Malaysia	4	Thousands+	Millions+
12/14-12/15	Flooding	Indonesia	4	16,850+	Millions+
12/14-12/16	Flooding	China	0	15,000+	410+ million
12/16	Earthquake	China	0	18,100+	6.3+ million
12/16-12/17	Winter Weather	Vietnam	0	Thousands+	2.0+ million
12/28-12/31	Flooding	Indonesia	0	4,500+	Millions+

Seasonal monsoon rains caused floods that inundated at least four east coast states in Malaysia during the first ten days of December, killing four people. The floods forced the evacuation of more than 75,000 people from their homes in the states of Pahang, Johor, Terengganu, and Kelantan. The most severe damage occurred in Pahang, where a high volume of residential and commercial properties sustained varying levels of water inundation. Most of the flooding in the four states was attributed to high tides and several rivers swelling above flood stage.

Periods of heavy rainfall fell across Indonesia's East Java on the 14th and 15th, spawning floods that left at least four people dead. The heaviest damage was concentrated in four areas surrounding the Bengawan Solo River, which overflowed and inundated 158 villages. A swollen Lamong River also caused an additional influx of water. The hardest-hit areas were found in Bojonegoro, Tuban, Gresik, and Mojokerto, where a combined 16,850 homes were damaged or destroyed. Vast areas of agricultural land were also submerged, with rice fields primarily affected.

A sweeping cold front brought heavy snowfall to China's southwestern provinces between the 14th and 16th, causing widespread damage and transportation delays. The heaviest impacts were felt in the provincial regions of Hainan, Yunnan and Sichuan, where heavy snow and rains were recorded. No fatalities were reported though nearly 90,000 people were left homeless following flood inundation or the collapse of roofs due to the weight of snow and ice. Total economic losses were listed by the Ministry of Civil Affairs (MCA) at CNY2.5 billion (USD410 million).

A moderate earthquake struck China's Hubei Province on the 16th, injuring at least six people. The magnitude-5.0 tremor was registered at 1:04 PM local time (5:04 UTC) with an epicenter located 7.0 kilometers (4.0 miles) east-northeast of Xinling, China. The most significant damage was seen closest to the epicenter in the counties of Badong, Zigui, and Xingshan, where 18,100 homes either collapsed or were damaged. The MCA listed direct economic losses at CNY38 million (USD6.3 million).

Heavy snow and cold temperatures affected northern Vietnam on the 16th and 17th, causing widespread damage to homes and agricultural land. Several provinces reported impacts, with Lao Cai sustaining the worst damage. Total economic losses to crops were estimated at VND35.2 billion (USD2.0 million).

Days of heavy rainfall between the 28th and 31st led to flooding across parts of western Indonesia. No serious injuries or fatalities were reported. The floods were most severe in North Sumatra's town of Tebing Tinggi, where nearly 4,500 homes were inundated by floodwaters up to 1.0-meter (3.3-feet) in height.

Oceania (Australia, New Zealand and the South Pacific Islands)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
12/16	Severe Weather	New Zealand	0	Thousands+	Millions+
12/30-12/31	CY Christine	Australia (WA)	0	Unknown	Unknown

Severe weather affected New Zealand's Canterbury region on the 16th, causing heavy damage to crops and residential property. Local officials reported that up to golf ball-sized hail struck the town of Mayfield (located near Ashburton). Farmers estimated damage to crops entering into the millions of dollars (USD). Additional damage losses were attributed to hail puncturing roofs and shattering windows.

Cyclone Christine made landfall in Western Australia near the town of Whim Creek late on the 30th, bringing periods of heavy rainfall, gusty winds and a minor storm surge to coastal locations. Despite making landfall as a 160 kph (100 mph) storm, only minor damage was reported. The most significant impacts came from loss of revenue at multiple ports due to the suspension of iron ore shipments.

APPENDIX

Updated 2013 Data: January – November

United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/1-12/31	Drought	Nationwide	0	Unknown	3.5+ billion
1/8-1/10	Severe Weather	Southeast	0	500+	10+ million
1/11-1/17	Winter Weather	California	0	Unknown	28+ million
1/29-1/30	Severe Weather	Southeast, Midwest, Plains	3	25,000+	350+ million
2/8-2/9	Winter Weather	Northeast, Mid-Atlantic	15	10,000+	100+ million
2/9-2/11	Winter Weather	Midwest, Plains, Southeast	1	7,500+	100+ million
2/21-2/22	Winter Weather	Plains, Midwest, Southeast	2	Thousands+	Millions+
2/24-2/27	Winter Weather	Plains, Midwest, Northeast	3	100,000+	1.0+ billion
3/4-3/8	Winter Weather	Plains, Midwest, Northeast	5	Thousands+	50+ million
3/18-3/20	Severe Weather	Southeast, Northeast	2	225,000+	2.0+ billion
3/23-3/25	Winter Weather	Plains, Midwest, Northeast	0	Unknown	Unknown
3/29-3/31	Severe Weather	Plains, Southeast	0	35,000+	325+ million
4/1-4/2	Severe Weather	Texas	0	25,000+	250+ million
4/7-4/11	Severe Weather	Nationwide	3	135,000+	1.75+ billion
4/17-4/19	Severe Weather	Central and Eastern U.S.	3	75,000+	900+ million
4/17-4/30	Flooding	Midwest, Mississippi Valley	4	25,000+	325+ million
4/26-4/28	Severe Weather	Plains, MS Valley, Southeast	0	45,000+	350+ million
4/29	Severe Weather	Midwest	0	12,500+	125+ million
5/8-5/11	Severe Weather	Texas, Oklahoma, Kansas	0	30,000+	200+ million
5/15-5/17	Severe Weather	Plains, Southeast	6	25,000+	500+ million
5/18-5/22	Severe Weather	Plains, Midwest, Northeast	29	160,000+	3.75+ billion
5/19	Flooding	Georgia	0	Hundreds+	10+ million
5/23	Severe Weather	Texas	0	Thousands+	Millions+
5/25	Flooding	Texas	3	Thousands+	Millions+
5/26-6/2	Severe Weather	Plains, Midwest, Northeast	27	150,000+	2.25+ billion
5/30-6/8	Wildfire	California	0	58+	21.4+ million
6/6-6/8	TS Andrea	Florida, Eastern Seaboard	3	Hundreds+	Unknown
6/11-6/20	Wildfire	Colorado	2	4,500+	500+ million
6/12-6/13	Severe Weather	Midwest, Northeast, Mid-Atlantic	4	75,000+	650+ million
6/20-6/28	Severe Weather	Central and Eastern U.S.	2	80,000+	800+ million
6/28-7/10	Wildfire	Arizona	19	129+	Millions+
7/8-7/10	Severe Weather	Central and Eastern U.S.	1	20,000+	175 + million
7/19-7/20	Severe Weather	Plains, Midwest, Northeast	1	25,000+	215+ million
7/21-7/24	Severe Weather	Plains, Rockies, Midwest	0	20,000+	275+ million
7/27-7/28	Flooding	North Carolina, Pennsylvania	2	Hundreds+	25+ million
8/1	Severe Weather	Rockies, Plains	0	Thousands+	50+ million
8/2-8/3	Severe Weather	Rockies	0	30,000+	400+ million

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
8/5-8/7	Severe Weather	Midwest, Plains	2	85,000+	1.25+ billion
8/5-8/12	Flooding	Plains, Tennessee Valley	3	5,000+	25+ million
8/22	Severe Weather	Colorado	0	15,000+	250+ million
8/17-9/20	Wildfire	California	0	111+	175+ million
8/30-8/31	Severe Weather	Plains, Midwest	0	20,000+	170+ million
9/9-9/15	Wildfire	California	1	211+	10+ million
9/9-9/16	Flooding	Colorado, New Mexico	10	25,000+	2.0+ billion
9/29-9/30	Severe Weather	Washington, Oregon	0	Hundreds+	Millions+
10/3-10/7	Winter Weather	Plains, Midwest, Northeast	3	Thousands+	100+ million
10/29-11/1	Severe Weather	Plains, Midwest, Northeast	3	15,000+	250+ million
11/17-11/18	Severe Weather	Midwest, Ohio Valley, Northeast	10	70,000+	1.6+ billion
11/23-11/27	Winter Weather	Nationwide	14	Unknown	Millions+

Remainder of North America (Canada, Mexico, Caribbean, Bermuda)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/1-5/31	Drought	Panama	0	Unknown	200+ million
2/7-2/10	Winter Weather	Canada	3	Thousands+	4.0+ million
4/18	Severe Weather	Canada	0	Hundreds+	Unknown
4/15-5/10	Flooding	Canada	0	2,000+	Millions+
5/22	Flooding	Bahamas	0	1,000+	45+ million
5/28-5/30	HU Barbara	Mexico, Central America	4	5,000+	Unknown
6/19-6/24	Flooding	Canada	4	25,000+	5.3+ billion
6/20-6/21	TS Barry	Mexico, El Salvador, Belize	3	2,000+	Unknown
7/5-7/9	HU Erick	Mexico	2	Hundreds+	Unknown
7/8	Severe Weather	Canada	0	25,000+	1.65+ billion
7/9-7/11	TS Chantal	Caribbean	1	Unknown	10+ million
7/19-7/20	Severe Weather	Canada	1	Hundreds+	Millions+
7/20-7/21	Severe Weather	Canada	0	Hundreds+	Millions+
8/21	Earthquake	Mexico	0	Hundreds+	Unknown
8/25-8/26	TS Fernand	Mexico	14	1,000+	Millions+
8/28-8/29	TS Juliette	Mexico	1	Unknown	Unknown
9/5-9/8	Flooding	Mexico	13	Hundreds+	Unknown
9/6	Earthquake	Guatemala	1	500+	Millions+
9/10-9/11	TS Gabrielle	Bermuda	0	Unknown	Unknown
9/13-9/17	HU Ingrid	Mexico	23	10,000+	1.5+ billion
9/13-9/20	HU Manuel	Mexico	169	35,000+	4.2+ billion

South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/1-5/31	Drought	Brazil	0	Unknown	8.0+ billion

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/1-1/20	Flooding	Brazil	4	10,000+	Millions+
1/1-2/20	Flooding	Peru	31	12,000+	Unknown
1/24	Flooding	Ecuador	10	Dozens+	Unknown
1/28-2/15	Flooding	Bolivia	24	582+	2.5+ million
1/30	Earthquake	Chile	1	Hundreds+	Unknown
2/9	Earthquake	Colombia	0	4,050+	4.0+ million
2/21-2/22	Wildfire	Chile	0	100+	Unknown
3/15-3/18	Flooding	Colombia	0	11,200+	Unknown
3/17-3/18	Flooding	Brazil	30	1,000+	1.5+ million
4/2-4/4	Flooding	Argentina	86	105,000+	1.3+ billion
4/23	Flooding	Ecuador	14	Dozens+	Unknown
6/20-7/19	Flooding	Paraguay, Argentina, Brazil	0	13,000+	Unknown
7/16	Earthquake	Peru	0	691+	Millions+
8/24-8/31	Winter Weather	Bolivia, Peru, Paraguay	15	Thousands+	Millions+
9/10-9/30	Winter Weather	Chile	0	Unknown	1.15+ billion
9/21-9/22	Severe Weather	Brazil, Paraguay	4	20,000+	115+ million
9/23	Flooding	Bolivia	19	Unknown	Unknown
9/25	Earthquake	Peru	0	1,411+	Unknown
11/15-12/1	Flooding	Colombia	7	13,000+	Millions+

Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/17-1/22	Winter Weather	Western Europe	7	7,000+	715+ million
1/28	Flooding	Turkey	7	Unknown	Unknown
2/15	Meteor Explosion	Russia	0	108,000+	33+ million
2/22	Flooding	Greece	1	1,000+	Millions+
2/24-2/26	Flooding	Macedonia, Serbia	1	2,000+	Millions+
3/12-3/31	Winter Weather	West/Central/East Europe	30	150,000+	1.8+ billion
3/14	Severe Weather	Azores	3	500+	45+ million
4/23	Earthquake	Hungary	0	600+	Unknown
5/3	Severe Weather	Italy	0	5,000+	13.1+ million
5/11-5/14	Severe Weather	Turkey	3	1,000+	Unknown
5/12	Severe Weather	Armenia	0	12,800+	61+ million
5/22	Severe Weather	Russia	0	250+	3.2+ million
5/30-6/15	Flooding	Central Europe	25	150,000+	22+ billion
6/18-6/19	Severe Weather	France, Spain	3	100,000+	1.25+ billion
6/20-6/21	Severe Weather	Switzerland	0	25,000+	250+ million
7/19	Flooding	Georgia	0	3,800+	Unknown
7/27-7/28	Severe Weather	Germany, France	0	750,000+	4.25+ billion
8/4-8/7	Severe Weather	Central/Western Europe	0	50,000+	500+ million
8/4-8/31	Flooding	Russia	0	11,500+	1.0+ billion
9/11-9/15	Flooding	Romania	9	2,000+	11+ million

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
9/14-9/15	Flooding	Ukraine	2	Hundreds+	21+ million
10/27-10/29	WS Christian	Western/Northern Europe	18	Thousands+	2.0+ billion
11/17-11/20	Flooding	Saudi Arabia, Iraq	22	10,000+	Millions+
11/18-11/19	Flooding	Italy	18	Hundreds+	140+ million

Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/1-8/31	Drought	Namibia	0	Unknown	64+ million
1/10-2/28	Flooding	Southern Africa	175	125,000+	525+ million
1/10-3/31	Flooding	Namibia	0	12,000+	Unknown
1/27-2/2	CY Felleng	Madagascar, Seychelles	18	9,965+	10+ million
2/13	Flooding	Mauritius	0	1,500+	30+ million
2/20-2/23	CY Haruna	Madagascar	26	16,449+	25+ million
3/4	Severe Weather	Central African Republic	0	1,314+	Unknown
3/30	Flooding	Mauritius	11	Thousands+	Millions+
3/1-4/30	Flooding	Ghana	5	10,000+	Unknown
3/10-4/30	Flooding	Kenya	66	35,000+	36+ million
4/6-4/7	Flooding	Angola	9	1,000+	Unknown
4/10-4/30	Flooding	Ethiopia	0	5,256+	2.2+ million
5/1-5/5	Flooding	Uganda	10	5,000+	3.1+ million
6/1	Severe Weather	South Africa	3	547+	Unknown
7/17	Earthquake	Algeria	0	Thousands+	Unknown
7/15-8/19	Flooding	Niger	20	15,000+	Unknown
8/1-8/4	Flooding	Sudan	73	40,000+	7.0+ million
8/9	Flooding	Nigeria	1	1,000+	Unknown
8/28	Flooding	Mali	55	1,000+	Unknown
8/5-9/25	Flooding	Mauritania	8	1,000+	Millions+
9/20-11/30	Flooding	Somalia	0	30,000+	Unknown
11/9	TS Three	Somalia	440+	10,000+	Millions+
11/28	Severe Weather	South Africa	0	40,000+	300+ million

Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/1-1/20	Winter Weather	India, Bangladesh, Nepal	389	Unknown	Unknown
1/1-8/31	Drought	China	0	Unknown	10+ billion
1/3-1/9	Winter Weather	China	0	7,500+	204+ million
1/6-1/9	Winter Weather	Middle East	11	5,000+	345+ million
1/11	Flooding	China	46	63+	48+ million
1/15-1/23	Flooding	Philippines	10	5,000+	2.8+ million
1/17-1/18	Winter Weather	India	0	Thousands+	185+ million
1/20-1/27	Flooding	Indonesia	41	100,274+	3.31+ billion

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/22	Earthquake	Indonesia	1	100+	Unknown
1/25-1/27	Flooding	Sri Lanka	1	2,164+	Unknown
1/27	Flooding	Indonesia	21	100+	Unknown
1/28	Earthquake	Kazakhstan, China	1	8,900+	29+ million
2/15-2/22	Flooding	Indonesia	17	11,608+	Millions+
2/18-2/20	TD Two	Philippines	5	5,000+	1.68+ million
2/18-2/21	Winter Weather	China	2	2,700+	124+ million
2/19-2/20	Earthquakes	China	0	3,271+	67+ million
2/26-2/28	Flooding	Indonesia	3	3,000+	Unknown
2/23-3/3	Winter Weather	Japan	9	384+	14.2+ million
3/3	Earthquake	China	0	85,542+	56+ million
3/9-3/13	Severe Weather	China	1	46,650+	161+ million
3/11	Earthquake	China	0	864+	Unknown
3/17-3/18	Flooding	China	0	7,000+	13+ million
3/18-3/20	Severe Weather	China	25	279,600+	259+ million
3/22	Severe Weather	Bangladesh	37	3,387+	20+ million
3/25	Flooding	Indonesia	13	10+	Unknown
3/26-4/2	Severe Weather	Vietnam	1	25,000+	14.4+ million
3/27	Earthquake	Taiwan	1	1,000+	1.0+ million
3/29-3/30	Severe Weather	China	3	5,000+	26+ million
3/29-3/30	Severe Weather	Bangladesh, India	11	5,004+	Unknown
4/6-4/9	Severe Weather	Japan	3	555+	Unknown
4/7-11	Flooding	Indonesia	11	22,830+	Unknown
4/9	Earthquake	Iran	40	3,100+	600+ million
4/13	Earthquake	Japan	0	2,802+	Unknown
4/16	Earthquake	Iran, Pakistan	41	6,270+	50+ million
4/17	Earthquake	China	0	16,109+	38+ million
4/17-4/19	Severe Weather	China	2	57,100+	309+ million
4/20	Earthquake	China	196	620,000+	14+ billion
4/20-5/15	Flooding	Maldives	0	1,000+	Unknown
4/22	Flooding	China	11	Unknown	Unknown
4/23-4/24	Flooding	Afghanistan	24	2,500+	Unknown
4/24	Earthquake	Afghanistan	18	4,345+	Unknown
4/25	Earthquake	China	1	29,000+	47+ million
4/28-5/1	Severe Weather	China	12	43,400+	154+ million
5/1	Earthquake	India	3	70,000+	120+ million
5/6-5/10	Flooding	China	19	51,000+	293+ million
5/13-5/16	CY Mahasen	Bangladesh, Myanmar, India	72	151,000+	200+ million
5/14-5/16	Flooding	China	55	60,000+	935+ million
5/19-5/23	Flooding	China	12	20,000+	445+ million
5/24-5/27	Flooding	China	12	40,000+	333+ million
6/1	Earthquake	Taiwan	4	500+	1.1+ million
6/1-6/3	Earthquake	Philippines	0	500+	Unknown

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
6/1-8/31	Flooding	Laos	20	20,000+	60+ million
6/5-6/8	Flooding	China	15	5,000+	277+ million
6/8-6/10	Severe Weather	Sri Lanka	58	4,295+	Millions+
6/14-6/18	Flooding	India, Nepal	6,748	25,000+	1.91+ billion
6/14-6/21	Flooding	China	11	56,100+	555+ million
6/21-6/23	TS Bebinca	China, Vietnam	0	1,000+	45+ million
6/23-6/25	Severe Weather	China	11	10,000+	118+ million
6/29-7/3	Flooding	China	55	125,000+	1.4+ billion
6/29-7/2	TY Rumbia	China, Philippines	7	4,500+	178+ million
7/1-7/31	Flooding	North Korea	33	6,000+	Unknown
7/1-8/31	Flooding	Nepal	138	10,000+	Unknown
7/2	Earthquake	Indonesia	39	20,333+	134+ million
7/7-7/17	Flooding	China	125	375,000+	4.5+ billion
7/9-7/10	Flooding	India	174	Thousands+	Millions+
7/13-7/15	STY Soulik	China, Taiwan	9	10,000+	460+ million
7/16-7/18	TS Cimaron	China, Philippines	1	10,000+	253+ million
7/21-7/25	Flooding	China	36	143,700+	1.4+ billion
7/22	Earthquake	China	95	80,000+	3.25+ billion
7/25-7/28	Flooding	Myanmar, Thailand	13	20,000+	97+ million
7/25-8/1	Flooding	China	10	25,000+	571+ million
7/28	Flooding	Japan	5	5,863+	Millions+
7/28-7/30	Flooding	Vietnam	5	1,000+	6.5+ million
7/28-7/30	Flooding	Indonesia	12	1,628+	Unknown
8/1-8/9	Flooding	Philippines	11	Hundreds+	36+ million
8/2-8/4	TS Jebi	China, Vietnam	7	2,000+	21+ million
8/3-8/15	Flooding	Afghanistan	68	1,400+	Unknown
8/3-9/30	Flooding	Pakistan	234	79,208+	2.0+ billion
8/4-8/8	Flooding	China	18	20,000+	490+ million
8/5-11/30	Flooding	Cambodia	188	377,354+	1.0+ billion
8/9-9/5	Flooding	China	118	215,000+	5.0+ billion
8/10-8/14	Flooding	Afghanistan	31	500+	Unknown
8/12-8/15	STY Utor	China, Philippines	86	126,053+	2.6+ billion
8/14-9/4	Flooding	Yemen	43	10,000+	Unknown
8/18-8/21	Flooding	Philippines	27	Thousands+	2.2+ billion
8/19-8/21	Flooding	China	43	51,000+	457+ million
8/21-8/23	TY Trami	China, Taiwan	2	11,100+	406+ million
8/23-8/26	Flooding	Japan	2	1,861+	Millions+
8/22-8/27	Flooding	India	73	5,000+	Unknown
8/23-8/27	Flooding	China	12	9,000+	278+ million
8/27-8/31	TS Kong-rey	Philippines, Taiwan, Japan	4	1,000+	25+ million
8/31	Earthquake	China	3	107,600+	155+ million
9/1-10/31	Flooding	Thailand	80	35,000+	482+ million
9/2-9/4	Severe Weather	Japan	0	1,518+	Millions+

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
9/3-9/4	Flooding	Vietnam	29	Hundreds+	Unknown
9/3-9/5	TS Toraji	Japan	1	1,439+	Millions+
9/10	Flooding	Afghanistan	24	500+	Unknown
9/16-9/17	TS Man-yi	Japan	6	11,919+	Millions+
9/16-9/18	Flooding	China	17	30,000+	343+ million
9/16-9/18	TD 18	Vietnam, Laos	13	15,000+	61+ million
9/20-9/23	STY Usagi	China, Philippines, Taiwan	47	105,000+	3.8+ billion
9/23-9/27	Flooding	Philippines	33	1,000+	4.0+ million
9/24 & 9/28	Earthquake	Pakistan	825	47,000+	100+ million
9/29-10/2	TY Wutip	Vietnam, China	33	250,000+	517+ million
10/4-10/8	Flooding	Philippines	20	1,500+	3.2+ million
10/5-10/8	TY Fitow	China, Japan	12	97,000+	10.4+ billion
10/11-10/13	CY Phailin	India	46	430,000+	1.1+ billion
10/11-10/15	TY Nari	Philippines, Vietnam	37	171,000+	153+ million
10/14-10/16	TY Wipha	Japan	39	6,594+	100s of Millions
10/15	Earthquake	Philippines	222	100,000+	163+ million
10/19	Flooding	Indonesia	0	4,000+	Unknown
10/21-10/26	Flooding	India	72	75,000+	260+ million
10/22	Earthquake	Indonesia	1	650+	Unknown
10/31	TY Krosa	Philippines	3	28,220+	5.0+ million
11/7-11/10	STY Haiyan	Philippines, Vietnam, China	7,884	1.3+ million	13+ billion
11/15-11/20	Flooding	Vietnam	42	427,258+	72+ million
11/21-11/23	CY Helen	India	10	Thousands+	800+ million
11/28	Earthquake	Iran	8	5,000+	Unknown

Oceania (Australia, New Zealand and the South Pacific Islands)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/1-5/10	Drought	New Zealand	0	Unknown	1.6+ billion
1/1-1/17	Wildfires	Australia (TAS, NSW, VIC)	1	3,500+	175+ million
1/21-1/30	Flooding	Australia (QLD, NSW)	6	87,843+	2.5+ billion
2/6	Earthquake	Solomon Islands	13	1,066+	Millions+
2/22-2/24	Severe Weather	Australia (NSW, QLD)	1	6,000+	16+ million
2/25-2/27	CY Rusty	Australia (WA)	0	Unknown	Unknown
3/21	Severe Weather	Australia (VIC, NSW)	0	1,198+	21+ million
4/19-4/22	Flooding	New Zealand	0	1,500+	39+ million
6/20-6/22	Winter Weather	New Zealand	0	9,500+	40+ million
7/21	Earthquake	New Zealand	0	5,452+	50+ million
8/3	Severe Weather	Australia (South Australia)	0	100+	9.1+ million
8/16	Earthquake	New Zealand	0	5,903+	50+ million
8/29-9/2	Flooding	Solomon Islands	0	2,055+	Millions+
9/10-9/11	Severe Weather	New Zealand	0	2,000+	20+ million
10/17-10/31	Bushfires	Australia (NSW)	2	1,632+	250+ million

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
11/16	Severe Weather	Australia (QLD, NSW)	0	Thousands+	Millions+
11/18-11/23	Severe Weather	Australia (QLD, NSW)	0	Thousands+	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 insurance companies 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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