

December 2012 Global Catastrophe Recap



Table of Contents

Executive Summary	3
United States	4
Remainder of North America (Canada, Mexico, Caribbean, Bermuda)	4
South America	4
Europe	5
Africa	5
Asia	5
Oceania (Australia, New Zealand and the South Pacific Islands)	7
APPENDIX	8
Contact Information	16
About Impact Forecasting® LLC	16
About Aon Benfield	16

Executive Summary

- Super Typhoon Bopha leaves 1,901 people dead or missing in the Philippines
- Winter weather causes widespread damage and fatalities in the United States and Europe
- Cyclone Evan kills 14 people while crossing the Samoan Islands and Fiji

Super Typhoon Bopha made landfall on the southern Philippine island of Mindanao as a 260 kph (160 mph) Category 5 typhoon. The cyclone left 1,901 people dead or missing and injured 2,666 others. More than 216,817 homes were damaged or destroyed across 318 municipalities in 34 provinces, with the provinces of Davao Oriental and Compostela Valley sustaining extensive damage. Economic losses to agriculture, infrastructure and private property were PHP37 billion (USD802 million), with an additional PHP5 billion (USD122 million) needed for the rehabilitation of farms. In Palau, Bopha caused an additional USD20 million in damage.

Also in the Philippines, Tropical Storm Wukong left at least 24 people dead or missing. Five cities in five provinces sustained damage, as 6,439 homes were affected and infrastructure was submerged. The NDRRMC reported losses to agriculture and infrastructure at PHP225 million (USD5.5 million).

In other tropical cyclone news, Cyclone Evan crossed the Samoan Islands, Fiji, Tonga and other small islands in the South Pacific Basin, killing at least 14 people. In Samoa, extensive damage occurred along coastal areas, with total economic losses estimated at WST300 million (USD133 million). Elsewhere, Evan also caused damage in Fiji, as total economic losses were approximately FJD15 million (USD8.4 million).

Also in December, winter storms plagued the United States and parts of Europe. In the U.S., at least three notable weather systems were recorded during the month. The Plains, Midwest, Northeast and the Mid-Atlantic States endured heavy accumulating snowfall as the inclement weather prompted major travel delays. Severe weather also accompanied the storm systems. A confirmed 28 tornadoes touched down on Christmas Day in the Southeast, which became the largest outbreak ever recorded on December 25th.

In Europe, at least 277 people were killed as an active winter weather pattern engulfed more than 15 central and eastern countries. More than one meter (three feet) of snow and temperatures dropping as low as -22°C (-8°F) were recorded, which led to widespread damage as trees fell and roofs collapsed under the weight of heavy snow and ice. Hundreds of roads were closed, flights were cancelled and shipments along the Danube River were suspended after parts of the river froze.

New Zealand endured its deadliest tornado in 60 years, after the twister struck the west Auckland suburb of Hobsonville. At least three people were killed after the EF-2 twister with 200 kph (125 mph) winds damaged or destroyed at least 150 homes in an area near Whenuapai Air Force Base. New Zealand's Ministry of Civil Defense estimated total damages at NZD11 million (USD9.1 million).

Flooding was prevalent across parts of Asia, with Sri Lanka sustaining the worst effects. At least 42 people were killed after flooding and landslides impacted nearly every section of the country. Nearly 30,000 homes were damaged or destroyed, in addition to agriculture and infrastructure.

In Indonesia, three people were killed in West Sumatra's Solok Selatan district after rains prompted a landslide. More than 2,000 homes were destroyed. The Iraqi capital of Baghdad sustained its heaviest rains in at least 30 years, triggering floods that left at least four people dead.

United States

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
12/8-12/10	Winter Weather	Midwest, Southeast, Southwest	2+	5,000+	10+ million
12/19-12/21	Winter Weather	Midwest, Southeast, Northeast	7+	Thousands+	Millions+
12/24-12/28	Winter Weather	Midwest, Southeast, Northeast	17+	10,000+	100+ million

A winter storm affected parts of the Upper Midwest, Southeast and the Mississippi Valley between the 8th and the 10th, killing at least one person. Heavy snow fell across portions of Minnesota, the Dakotas and western Wisconsin, where thousands of auto accidents and severe travel disruption were recorded. Along the cold front, severe weather spawned at least nine tornadoes in the Southeast. The most notable came in Volusia County, Florida, where an EF-1 twister caused USD1.7 million in damage. Wintry weather also affected New Mexico, where one person was killed in a storm-related accident.

A strong winter storm crossed central and eastern sections of the U.S. between the 19th and the 21st, killing at least seven people. In the Plains and parts of the Midwest, the storm brought snow totals of nearly 20 inches (50 centimeters) and winds gusting in excess of 50 mph (80 kph). Severe weather was also recorded from Texas to Florida. At least four tornadoes occurred.

A powerful winter storm spawned dozens of tornado touchdowns, damaging winds and excessive snowfall across the eastern half of the United States between the 24th and the 28th. Severe weather caused the most damage, with at least 28 tornadoes recorded in the Southeast. The Mobile, Alabama metro region was hardest-hit after an EF-2 twister touched down. Parts of Mississippi and Louisiana were heavily affected as well by storms. Elsewhere, blizzard conditions and snow accumulations beyond 18 inches (45 centimeters) affected an area from Arkansas to Maine. All 17 fatalities from the storm were non-tornado related. Total economic losses were anticipated to exceed USD100 million.

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

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
12/27-12/28	Winter Weather	Canada	0	Unknown	Unknown

A broad winter storm originating in the United States prompted record snowfall across portions of Canada's provincial areas of Ontario, Quebec, Nova Scotia and the Maritimes on the 27th and the 28th. More than 45 centimeters (17.7 inches) of snow fell during a 24-hour stretch in Montreal, breaking a one-day record set in 1971. The heavy snows combined with gusty winds and ice to snap power lines and trees, causing widespread power outages and isolated instances of residential and commercial damage.

South America

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
12/26-12/31	Flooding	Colombia, Peru	5+	1,000+	Unknown

Heavy rains fell across portions of Colombia and Peru between the 26th and the 31st, leading to widespread flooding and landslides. In Colombia, large landslide collapsed near the city of Neiva and killed five people while destroying several buildings, cars and blocking the main thoroughfare. In Peru, heavy rains inundated the region of Huanoco as hundreds of homes were destroyed. The floodwaters, which were as high as three meters (9.84 feet), were enhanced by overflowing Amazonian rivers.

Europe

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
12/1-12/2	Flooding	Turkey	1+	Hundreds+	Millions+
12/7-12/31	Winter Weather	Eastern Europe	277+	10,000+	25+ million

Heavy rains swept across Turkey's western provinces of Balıkesir, Çanakkale and Bursa on the 1st and 2nd, prompting widespread flooding. At least one person was killed. Government officials reported that hundreds of homes and businesses had been damaged or destroyed due to flash floods and overflowing rivers. Damage to infrastructure was severe as well, leading to the closure of several main highways.

An active winter weather pattern engulfed much of Central and Eastern Europe between the 7th and the 31st, bringing more than one meter (three feet) of snow and temperatures as low as -22°C (-8°F). At least 277 fatalities were recorded in Ukraine (133), Russia (56), Poland (49), Switzerland (11), Czech Republic (7), Serbia (6), Lithuania (6), Croatia (4), Bulgaria (3), and Germany (2). Widespread damage was reported in more than 15 countries as high winds caused trees to fall and roofs to collapse under the weight of heavy snow and ice. Hundreds of roads were closed, flights were cancelled and shipments along the Danube River were suspended after parts of the river froze.

Africa

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
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No major disasters events occurred in Africa during the month of December.

Asia

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
12/2-12/5	STY Bopha	Philippines, Palau	1,901+	225,000+	1.04+ billion
12/5	Earthquake	Iran	8+	1,000+	Unknown
12/7	Earthquake	Japan	0	Dozens+	Unknown
12/7	Earthquake	China	0	1,100+	96+ million
12/17-12/19	Flooding	Sri Lanka	42+	29,321+	1.2+ million
12/22-12/26	Winter Weather	India	114+	Unknown	Unknown
12/24-12/25	Flooding	Indonesia	3+	2,100+	Unknown
12/25-12/26	Flooding	Iraq	4+	5,000+	Unknown
12/25-12/27	TS Wukong	Philippines	24+	6,439+	5.5+ million

Super Typhoon Bopha made landfall on the southern Philippine island of Mindanao the 4th as a 260 kph (160 mph) Category 5 typhoon after first crossing Palau. The cyclone left 1,901 people dead or missing and injured 2,666 others. According to the Philippines National Disaster Risk Reduction and Management Council (NDRRMC), Bopha caused catastrophic damage in the provinces of Davao Oriental and Compostela Valley. Nationwide, more than 216,817 homes were damaged or destroyed across 318 municipalities in 34 provinces. Economic losses included agriculture (PHP26.5 billion (USD646 million)), infrastructure (PHP7.6 billion (USD185 million)) and private property (PHP2.9 billion (USD71 million)). The Philippines Banana Growers and Exporters Association reported that 25% of the country's banana crop was destroyed and that an additional PHP5 billion (USD122 million) would be needed for the rehabilitation of farms. In Palau, Bopha caused severe damage on the eastern coasts of the southern islands of Anguar, Peleliu and Babeldaob. Total damages were estimated at USD20 million.

An earthquake struck eastern Iran on the 5th, killing at least eight people and injuring 23 others. The magnitude-5.6 tremor occurred at 8:38 PM local time (17:08 UTC) with an epicenter 42 kilometers (26 miles) east-southeast of Qayen, Iran. As many as 20 villages sustained damage to more than 60% of its homes and other structures in South Khorasan Province. The earthquake also cut power lines and disrupted telephone communication throughout the region.

An offshore magnitude-7.3 earthquake rattled Japan on the 7th, injuring at least 13 people. The tremor occurred at 6:18 PM local time (8:18 UTC) with an epicenter located 245 kilometers (152 miles) southeast of Kamaishi, Japan. Japan's Fire and Disaster Management Agency (FDMA) noted only scattered reports of damage – none of which were substantial in nature – and that the country's nuclear power plants were not affected. Only minor infrastructure damage and scattered power outages were reported.

A magnitude-5.3 earthquake struck China's Xinjiang Province on the 7th, damaging or destroying at least 1,100 homes. The tremor occurred at 10:08 PM local time (14:08 UTC) with an epicenter 234 kilometers (145 miles) east-northeast of Qiemo, China. The Ministry of Civil Affairs (MCA) noted economic losses of at least CNY600 million (USD96 million).

Three days of torrential rainfall affected nearly every section of Sri Lanka between the 17th and the 19th, killing at least 42 people and injuring 21 others. According to officials from the Disaster Management Center, flooding and landslides damaged or destroyed at least 29,321 homes after as much as 315 millimeters (12.4 inches) of rain fell. In addition to residential damage, up to 15,000 hectares (37,000 acres) of paddy fields were submerged and transportation via road and rail was disrupted as well. The government allocated more than LKR150 million (USD1.2 million) for recovery efforts.

A prolonged cold snap engulfed much of northern India between the 22nd and the 31st, killing at least 114 people. All of the fatalities were recorded in the states of Uttar Pradesh, Rajasthan, Punjab and Haryana after temperatures dropped to as low as 7°C (45°F).

Heavy rainfall affected several regions of Indonesia on the 24th and 25th, causing flash floods and landslides. In West Sumatra, at least three people were killed in the district of Solok Selatan after a large landslide struck. Damage was reported to nearly 2,100 homes in Dompu district following flood inundation. Elsewhere, floodwaters were also recorded in sections of Jakarta.

The heaviest rains in at least 30 years fell in the Iraqi capital of Baghdad on the 25th, which prompted severe flooding on the 26th. At least four people were killed as 6.75 centimeters (2.56 inches) of rain led to extensive damage to thousands of homes, businesses, hospitals and to the transportation infrastructure.

Tropical Storm Wukong tracked across central sections of the Philippines between the 25th and the 27th, bringing periods of heavy rainfall and a minor storm surge. At least 24 people were killed. Six provinces sustained damage, as 6,439 homes were affected and infrastructure was submerged. The NDRRMC reported losses to agriculture and infrastructure at PHP225 million (USD5.5 million).

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

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
12/6	Severe Weather	New Zealand	3+	150+	9.1+ million
12/13-12/18	CY Evan	Samoa Islands, Fiji, Tonga	14+	15,000+	141+ million

New Zealand's deadliest tornado in 60 years struck the west Auckland suburb of Hobsonville on the 6th, killing at least three people and injuring seven others. The EF-2 twister with 200 kph (125 mph) winds damaged or destroyed at least 150 homes in an area near Whenuapai Air Force Base. New Zealand's Ministry of Civil Defense estimated total damages at NZD11 million (USD9.1 million).

Cyclone Evan crossed the Samoa Islands, Fiji, Tonga and other small islands in the South Pacific Basin between the 13th and the 18th, killing at least 14 people. In Samoa, high winds, flooding rains and a 4.5-meter (14.8-foot) storm surge left extensive damage along coastal areas. Thousands of homes and other structures were damaged or destroyed in addition to infrastructure, the electrical grid and agriculture. Total economic losses in Samoa were estimated at WST300 million (USD133 million). Elsewhere, Evan also caused damage in Fiji, where the cyclone grazed the main island of Viti Levu. Total economic losses were approximately FJD15 million (USD8.4 million). Other damage was recorded on the islands of Tonga and Wallis and Futuna.

APPENDIX

Updated January – November 2012 Data

United States

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
1/8-1/12	Winter Weather	Plains, Southeast, Northeast	0	Thousands+	Millions+
1/12-1/13	Winter Weather	Midwest, Ohio Valley, Northeast	0	Thousands+	Millions+
1/16-1/17	Severe Weather	Midwest, Southeast, Northeast	0	Thousands+	25+ million
1/17-1/22	Winter Weather	Pacific Northwest	3+	1,000+	100+ million
1/19-1/21	Wildfires	Nevada	0	29+	9.1+ million
1/22-1/23	Severe Weather	Southeast, Plains	3+	10,000+	175+ million
2/17-2/18	Severe Weather	Plains, Southeast	0	Hundreds+	Unknown
2/20	Severe Weather	Plains	1+	Thousands+	Millions+
2/22	Severe Weather	Southeast	1+	250+	1.6+ million
2/24	Severe Weather	Southeast, Mid-Atlantic	0	Hundreds+	Millions+
2/28-2/29	Severe Weather	Midwest, Plains, Southeast	14+	25,000+	500+ million
3/2-3/3	Severe Weather	Midwest, Southeast	41+	280,000+	4.0+ billion
3/4-3/9	Flooding	Hawaii	0	Hundreds+	37.5+ million
3/12	Flooding	Louisiana	0	1,500+	2.0+ million
3/14-3/15	Severe Weather	Great Lakes	0	20,000+	275+ million
3/18-3/25	Severe Weather	Plains, Midwest, Southeast	1+	37,500+	325+ million
3/26-4/2	Wildfire	Colorado	3+	25+	Unknown
3/26-4/30	Winter Weather	Michigan	0	Unknown	500+ million
3/29-3/31	Severe Weather	Plains, Midwest, Southeast	0	35,000+	400+ million
4/2-4/4	Severe Weather	Texas	0	120,000+	1.3+ billion
4/11	Severe Weather	California	0	Unknown	79+ million
4/13-4/15	Severe Weather	Plains, Midwest	6+	50,000+	1.75+ billion
4/20	Severe Weather	Texas	0	15,000+	90+ million
4/28-4/29	Severe Weather	Midwest	1+	350,000+	4.0+ billion
5/2-5/6	Severe Weather	Midwest, Plains, Mid-Atlantic	0	30,000+	275+ million
5/13-6/30	Wildfires	West, Midwest	0	375+	50+ million
5/25-5/30	Severe Weather	Plains, Midwest, Northeast	0	190,000+	2.5+ billion
5/28	TS Beryl	Southeast	4	Unknown	10+ million
1/1-12/31	Drought	United States	0	Unknown	35+ billion
6/2-6/4	Severe Weather	Plains, Midwest, Ohio Valley	3+	Hundreds+	Millions+
6/6-6/7	Severe Weather	Colorado, Wyoming	0	120,000+	1.75+ billion
6/9-6/11	Flooding	Southeast	2+	1,000+	174+ million
6/9-6/30	Wildfire	Colorado	1+	850+	136+ million
6/11-6/13	Severe Weather	Texas, New Mexico	0	130,000+	1.75+ billion
6/17-6/18	Severe Weather	Upper Midwest	0	12,500+	115+ million
6/19-6/20	Flooding	Minnesota	0	15,000+	125+ million
6/23-6/27	TS Debby	Florida	7+	20,000+	310+ million

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
6/23-7/10	Wildfire	Colorado	2+	10,000+	500+ million
6/28-7/2	Severe Weather	Midwest, Mid-Atlantic, Plains	28+	425,000+	3.75+ billion
6/30-7/19	Heat Wave	United States	100+	Unknown	Unknown
7/2-7/4	Severe Weather	Midwest, Ohio Valley, Northeast	1+	65,000+	550+ million
7/26-7/27	Severe Weather	Northeast	2+	15,000+	175+ million
8/3-8/9	Wildfires	Oklahoma	1+	1,000+	100+ million
8/9-8/10	Severe Weather	Great Lakes	0	Thousands+	175+ million
8/13-8/31	Wildfires	West	1+	300+	110+ million
8/26-8/31	HU Isaac	Gulf Coast	7+	28,000+	2.0+ billion
9/7-9/8	Severe Weather	Plains, Northeast, Mid-Atlantic	4+	35,000+	225+ million
9/10-9/11	Flooding	Desert Southwest	0	500+	Unknown
9/21-9/22	Severe Weather	Great Lakes, Plains	0	20,000+	175+ million
9/23	Wildfire	California	1+	38+	Unknown
10/17-10/18	Severe Weather	Mississippi Valley, Midwest	0	Thousands+	Millions+
10/27-10/30	HU Sandy	Eastern U.S.	132+	1.4+ million	62+ billion
11/6-11/8	Winter Weather	Northeast	4+	Unknown	Unknown
11/18-11/24	Winter Weather	Pacific Northwest	1+	Hundreds+	Millions+

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

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
2/11-2/12	Flooding	Canada	0	200+	Unknown
3/20	Earthquake	Mexico	2+	44,000+	815+ million
4/23-4/25	Flooding	Hispaniola	10+	3,000+	Unknown
4/28-4/29	Winter Weather	Canada	0	Unknown	100+ million
5/15-5/31	Flooding	Nicaragua	9+	5,900+	Unknown
5/24-5/27	Flooding	Cuba	2+	1,200+	Unknown
5/25-5/29	Flooding	Canada	0	Thousands+	Millions+
6/1	Flooding	Canada	0	Unknown	Unknown
6/5-6/6	Severe Weather	Canada	0	Hundreds+	10+ million
6/9-6/10	Severe Weather	Canada	0	2,500+	Millions+
6/15	HU Carlotta	Mexico	7+	31,500+	105+ million
6/26-6/30	Severe Weather	Canada	0	Unknown	9.0+ million
7/1-7/23	Flooding	Guatemala	0	1,010+	Unknown
7/11-7/12	Severe Weather	Canada	0	10,000+	175+ million
7/22-7/23	Severe Weather	Canada	0	10,000+	150+ million
7/23-7/31	Flooding	Central America	1+	4,150+	Unknown
7/26	Severe Weather	Canada	0	2,500+	80+ million
8/3-8/10	HU Ernesto	Caribbean, Mexico	7+	Hundreds+	Unknown
8/12	Severe Weather	Canada	0	10,000+	200+ million
8/17-8/18	TS Helene	Mexico, Caribbean	2+	Hundreds+	17+ million
8/22-8/26	HU Isaac	Caribbean	34+	1,000+	Unknown

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
9/5	Earthquake	Costa Rica	3+	500+	45+ million
9/8-9/11	HU Leslie	Canada, Bermuda	0	Hundreds+	10+ million
10/13-10/18	HU Rafael	Caribbean, Bermuda, Canada	1+	500+	2.0+ million
10/16-10/17	HU Paul	Mexico	0	600+	15.5+ million
10/23-10/27	HU Sandy	Caribbean, Bahamas, Canada	122+	300,000+	2.5+ billion
10/27	Earthquake	Canada	0	Unknown	Unknown
11/7	Earthquake	Guatemala	52+	30,870+	102+ million
11/10-11/11	Flooding	Haiti	17+	1,573+	Unknown
11/24-11/25	Flooding	Panama	5+	1,600+	Millions+

South America

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
12/24-1/6	Wildfires	Chile	7+	Hundreds+	200+ million
1/1-1/10	Flooding	Brazil	39+	25,000+	Millions+
1/1-3/25	Flooding	Ecuador	30+	4,000+	Unknown
1/30	Earthquake	Peru	0	858+	Unknown
2/8-2/9	Flooding	Peru	14+	11,000+	Unknown
2/10-2/29	Flooding	Brazil, Bolivia	1+	37,300+	10+ million
3/11-3/16	Flooding	Chile	0	6,500+	3.1+ million
3/24-3/31	Flooding	Colombia	5+	5,000+	170+ million
3/25	Earthquake	Chile	0	Hundreds+	100+ million
4/2-4/30	Flooding	Paraguay	0	13,654+	Unknown
4/4	Severe Weather	Argentina	18+	32,000+	10+ million
4/5-4/27	Flooding	Colombia, Peru	19+	25,000+	170+ million
5/1-5/20	Flooding	Brazil	0	75,000+	226+ million
5/8-5/11	Flooding	Venezuela	0	2,200+	93+ million
7/15-7/30	Flooding	Colombia	0	15,000+	Millions+
9/19	Severe Weather	Paraguay, Uruguay, Bolivia	9+	6,000+	Millions+
10/5-10/19	Flooding	Colombia	12+	3,500+	Unknown
10/29-10/31	Flooding	Argentina	1+	1,500+	Millions+

Europe

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
1/3-1/4	WS Ulli	UK, Scandinavia	2+	5,000+	500+ million
1/4-1/5	WS Andrea	UK, Northern Europe	0	Thousands+	650+ million
1/24-2/17	Winter Weather	Eastern/Central Europe	824+	Unknown	775+ million
2/7-2/8	Winter Weather	Ukraine	0	Unknown	2+ million
2/7-2/9	Flooding	Bulgaria, Greece	12+	Hundreds+	4.4+ million
3/26	Earthquake	Turkey	0	Hundreds+	Unknown
4/20	Wildfire	Russia	1+	65+	Unknown

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
4/22-4/27	Flooding	Russia	0	3,957+	17+ million
5/7	Earthquake	Azerbaijan	0	3,124+	Unknown
5/12	Flooding	Georgia	5+	5,000+	4.9+ million
5/18	Earthquake	Azerbaijan	0	7,000+	Unknown
5/20	Earthquake	Italy	7+	5,000+	15.8+ billion
5/29	Earthquake	Italy	18+	5,000+	
6/1-9/30	Drought	Italy	0	Unknown	1.23+ billion
6/1-9/30	Drought	Russia	0	Unknown	1.14+ billion
6/1-9/30	Drought	Slovenia	0	Unknown	162+ million
6/4	Severe Weather	Ukraine	0	150+	Unknown
6/10	Earthquake	Turkey, Greece	0	Hundreds+	Unknown
6/10-6/11	Flooding	United Kingdom	0	20,000+	450+ million
6/11	Severe Weather	Italy	0	Hundreds+	12.6+ million
6/23-6/24	Flooding	United Kingdom	1+	48,000+	800+ million
6/30-7/8	Severe Weather	Central Europe	9+	Hundreds+	25+ million
7/7	Flooding	Russia	171+	7,000+	280+ million
7/11	Severe Weather	Slovenia	0	Thousands+	5.0+ million
7/14	Severe Weather	Poland	1+	100+	5.9+ million
7/19	Severe Weather	Georgia	0	20,000+	91+ million
7/22-7/27	Wildfire	Spain, Greece	4+	Unknown	Unknown
8/10-8/31	Wildfires	Spain, France, Croatia, Greece	3+	Unknown	Unknown
8/13	Severe Weather	Ukraine	0	Hundreds+	Unknown
9/9	Winter Weather	Iceland	0	Hundreds+	2.43+ million
9/24-9/25	Flooding	United Kingdom	3+	570+	81+ million
9/27-9/29	Flooding	Spain	10+	19,500+	200+ million
10/7	Flooding	Sweden	0	Hundreds+	Unknown
10/22-10/25	Flooding	Turkey	6+	Hundreds+	Millions+
10/26	Earthquake	Italy	1+	Hundreds+	Unknown
10/27-11/15	Flooding	Italy	0	Thousands+	Millions+
11/5-11/6	Flooding	Slovenia, Croatia	0	4,500+	265+ million
11/21-28	Flooding	United Kingdom	0	1,100+	1.0+ billion
11/28	Severe Weather	Italy	0	Dozens+	Unknown

Africa

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
1/16-1/17	Flooding	Mozambique, South Africa	10+	5,000+	Unknown
1/20-1/26	CY Funso	Mozambique, Malawi	40+	10,000+	100+ million
2/13	Severe Weather	Nigeria	15+	3,000+	1.0+ million
2/14	CY Giovanna	Madagascar	35+	50,000+	100+ million
2/26-3/7	CY Irina	Madagascar, Mozambique	84+	35,000+	Millions+
4/12	Flooding	Rwanda	5+	2,232+	Unknown

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
4/20-4/28	Flooding	Comoros	0	9,338+	3.8+ million
4/24-5/15	Flooding	Kenya	50+	50,000+	130+ million
6/23-6/25	Flooding	Uganda	30+	100+	Unknown
7/22-10/31	Flooding	Nigeria	363+	500,000+	636+ million
8/1-8/10	Flooding	Chad	0	15,000+	20+ million
8/1-8/12	Flooding	Sudan	35+	30,000+	Unknown
8/1-8/31	Flooding	Niger	91+	50,000+	1.3+ million
8/11-8/12	Flooding	Nigeria	431+	150,000+	636+ million
8/15-8/31	Flooding	Senegal	19+	Thousands+	10+ million
8/25-8/31	Flooding	Cameroon	15+	22,000+	Millions+
9/1-10/31	Flooding	Benin	4+	12,000+	Unknown
9/27-9/28	Flooding	Somalia	20+	3,500+	Unknown
10/20-10/22	Severe Weather	South Africa	13+	25,000+	200+ million
11/17-11/18	Flooding	Congo	5+	2,000+	Unknown

Asia

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
1/1-1/31	Winter Weather	Japan	56+	Thousands+	Millions+
1/1-2/7	Winter Weather	China	0	10,000+	2.1+ million
1/5	Landslide	Philippines	42+	100+	Unknown
1/5	Severe Weather	Indonesia	0	500+	30+ million
1/8	Earthquake	China	0	9,000+	Unknown
1/16-1/17	Winter Weather	Afghanistan	46+	Unknown	Unknown
1/21	Earthquake	Indonesia	0	450+	1.3+ million
1/21-1/24	Winter Weather	China	0	1,000+	4.4+ million
1/25	Severe Weather	Indonesia	14+	2,000+	1.0+ million
2/6	Earthquake	Philippines	116+	53,000+	250+ million
2/7-2/9	Winter Weather	China	0	10,000+	20.2+ million
2/15-2/16	Winter Weather	China	0	1,000+	4.0+ million
2/18	Landslide	India	6+	Unknown	Unknown
2/19	Flooding	Philippines	0	5,000+	Unknown
2/22	Winter Weather	India	16+	Unknown	Unknown
2/25	Severe Weather	Indonesia	5+	100+	Unknown
3/4	Winter Weather	Afghanistan	50+	100+	Unknown
3/9	Earthquake	China	0	20,000+	82.7+ million
3/12	Winter Weather	Afghanistan	45+	50+	Unknown
3/15-3/18	Severe Weather	Thailand	0	200+	Unknown
3/16-3/20	Severe Weather	Indonesia	0	12,000+	Unknown
3/17	Flooding	China	0	578+	32+ million
3/20	Flooding	India	3+	15,862+	1.0+ million
3/27	Flooding	Philippines	11+	10,000+	2.1+ million

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
4/1	Severe Weather	Sri Lanka	0	1,200+	Unknown
4/1	TY Pakhar	Vietnam	2+	5,000+	Unknown
4/3-4/5	Severe Weather	Japan	4+	Hundreds+	Unknown
4/5	Severe Weather	China	0	20,000+	120+ million
4/11-4/18	Flooding	Saudi Arabia, Oman	18+	Thousands+	Millions+
4/20-4/25	Severe Weather	China	12+	25,400+	84+ million
4/20-4/25	Severe Weather	Vietnam	2+	4,780+	5.0+ million
4/22	Flooding	Afghanistan	16+	1,140+	Unknown
4/23-4/29	Flooding	Kyrgyzstan	0	2,500+	Unknown
4/28-5/15	Severe Weather	China	102+	143,000+	2.68+ billion
5/5	Flooding	Nepal	60+	1,000+	Unknown
5/6	Severe Weather	Japan	3+	1,904+	Millions+
5/6-5/11	Flooding	Afghanistan	47+	1,000+	Unknown
5/9	Flooding	Indonesia	5+	200+	Unknown
5/19	Flooding	Afghanistan	19+	Unknown	Unknown
5/20-5/24	Flooding	China	16+	19,300+	378+ million
5/27-5/30	Flooding	China	7+	16,000+	119+ million
6/1-6/3	Flooding	Philippines	3+	Unknown	Unknown
6/3-6/5	Flooding	Thailand	3+	5,000+	1.0+ million
6/5-6/12	Flooding	Taiwan	6+	7,000+	16.9+ million
6/8-6/12	Flooding	China	23+	53,000+	393+ million
6/11	Earthquake	Afghanistan	71+	50+	Unknown
6/12	Earthquake	China	0	1,900+	1.1+ million
6/12-6/13	Flooding	Philippines	13+	283+	Unknown
6/15-6/19	STY Guchol	Japan, Philippines	2+	1,000+	100+ million
6/18-6/20	Severe Weather	China	0	200+	82+ million
6/20-6/24	Severe Weather	China	5+	4,500+	124+ million
6/20-6/29	Flooding	China	50+	123,000+	2.73+ billion
6/22	Flooding	Afghanistan	37+	500+	Unknown
6/23-7/1	Flooding	India, Bangladesh	232+	600,000+	90+ million
6/24	Earthquake	China	4+	88,000+	300+ million
6/28-7/10	Flooding	China	70+	188,400+	1.19+ billion
6/30	Earthquake	China	0	71,500+	Millions+
7/3-7/5	Flooding	Japan	1+	460+	Millions+
7/11-7/16	Flooding	Japan	30+	16,045+	Millions+
7/11-7/17	Flooding	China	30+	76,000+	600+ million
7/18-7/31	Flooding	North Korea	119+	17,030+	Unknown
7/19	Flooding	Nepal	0	2,030+	Unknown
7/20-7/24	Flooding	China	149+	175,000+	4.8+ billion
7/24	Flooding	Indonesia	8+	125+	Unknown
7/24	TY Vicente	China, Vietnam	18+	13,000+	329+ million
7/27-8/2	Flooding	China	76+	36,000+	1.69+ billion
7/29-8/3	TY Saola	China, Philippines, Taiwan	82+	25,000+	161+ million

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
7/31	Flooding	Indonesia	8+	754+	Unknown
8/1-8/3	TY Damrey	China	14+	300,000+	3.28+ billion
8/3-8/9	Flooding	India	34+	Thousands+	110+ million
8/5-8/8	Flooding	Philippines	109+	12,962+	239+ million
8/7-8/9	TY Haikui	China	6+	48,250+	2.04+ billion
8/11	Earthquake	Iran	306+	50,000+	600+ million
8/15-8/18	TY Kai-tak	Philippines, China, Vietnam	40+	33,635+	272+ million
8/15-9/30	Flooding	Thailand	0	88,438+	Unknown
8/18	Earthquake	Indonesia	6+	1,108+	Unknown
8/21-8/23	Flooding	India	27+	7,500+	Unknown
8/21-10/31	Flooding	Pakistan	451+	465,424+	2.64+ billion
8/23-8/30	TY Tembin	Taiwan, Korea	2+	Hundreds+	6.7+ million
8/25-8/28	STY Bolaven	Korea, Japan	68+	15,000+	450+ million
8/28-8/30	Flooding	India	26+	1,892+	16+ million
8/29-8/30	Flooding	China	0	35,000+	4.63+ billion
8/31	Earthquake	Philippines	1+	300+	Unknown
8/31-9/6	Flooding	China	5+	38,700+	151+ million
9/4-9/11	Flooding	Vietnam	32+	10,180+	22+ million
9/7	Earthquake	China	81+	452,700+	1.15+ billion
9/7-9/13	Flooding	China	21+	100,000+	4.92+ billion
9/11	Earthquake	China	0	17,200+	17+ million
9/14	Flooding	India	47+	500+	20+ million
9/14	Earthquake	China	0	1,600+	127+ million
9/15-9/17	STY Sanba	South Korea, Japan	2+	6,000+	361+ million
9/17-9/26	Flooding	Cambodia	14+	14,300+	Unknown
9/21-9/28	Flooding	India, Bangladesh	56+	475,000+	34.2+ million
9/23	Winter Weather	Nepal	8+	Unknown	Unknown
9/29-9/30	STY Jelawat	Japan	2+	6,015+	27.4+ million
10/4	Landslide	China	19+	Unknown	Unknown
10/10	Severe Weather	Bangladesh	36+	23,380+	Unknown
10/21	Flooding	Indonesia	0	500+	Unknown
10/24-10/29	TY Son-tinh	Philippines, Vietnam, China	36+	63,774+	537+ million
10/29-10/31	TS Nilam	India, Sri Lanka	75+	50,000+	57+ million
11/1-11/8	Flooding	Indonesia	13+	3,042+	Unknown
11/2-11/4	Winter Weather	China	2+	1,000+	138+ million
11/7	Earthquake	Iran	0	500+	Unknown
11/10-11/14	Winter Weather	China	0	2,500+	100+ million
11/11	Earthquake	Myanmar	26+	5,000+	1.17+ million
11/27	Winter Weather	Japan	0	Hundreds+	Unknown
11/30	Winter Weather	Pakistan	18+	Unknown	Unknown

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

Date	Event	Location	Deaths	Structures/ Claims	Total Damage (USD)
1/12	TC Heidi	Australia (WA)	0	Unknown	Unknown
1/22-1/31	Flooding	Fiji	7+	Thousands+	17+ million
1/24	Landslide	Papua New Guinea	40+	Unknown	Unknown
1/24-2/15	Flooding	Australia (NSW, QLD)	1+	6,408+	920+ million
2/24-3/16	Flooding	Australia (NSW, VIC)	2+	8,914+	1.58+ billion
3/3	Severe Weather	New Zealand	0	1,250+	7.5+ million
3/17	CY Lua	Australia (WA)	0	Hundreds+	230+ million
3/20	Severe Weather	Australia (QLD)	0	150+	21+ million
3/29-4/3	Flooding	Fiji	7+	15,000+	71.3+ million
6/3-6/6	Severe Weather	Australia (NSW, VIC)	0	1,500+	Unknown
6/10-6/12	Severe Weather	Australia (WA)	1+	450+	Millions+
6/19	Earthquake	Australia (VIC)	0	880+	Unknown
11/17-11/18	Severe Weather	Australia (NSW, QLD)	0	10,700+	105+ million
11/28-11/29	Severe Weather	Australia (WA)	1+	500+	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. Total damage estimates indicate the overall economic losses. Any available insured loss estimates are included within this total and can be found in the corresponding event text.

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