

September 2012 Global Catastrophe Recap



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Executive Summary

- Significant flooding causes more than USD7.5 billion in economic damages across Asia
- Three tropical cyclones make landfall in the Atlantic and Western Pacific basins in September
- Severe weather across the U.S. causes more than USD125 million in insured loss

Seasonal monsoonal rains led combined economic losses of more than USD7.5 billion as significant flooding occurred across parts of Asia during the month of September. China sustained much of the loss, with two separate events affecting several provinces. The most costly occurred during a six-day stretch when flooding caused more than CNY31.1 billion (USD4.92 billion) in damage across six provinces. The Ministry of Civil Affairs noted that more than 100,000 homes were damaged or destroyed.

Major flooding persisted in Pakistan as the National Disaster Management Authority reported that the death toll had risen to at least 442 after heavy rains had initially begun in mid-August. Another 2,912 people were injured. In terms of damage, more than 407,138 homes were damaged or destroyed in addition to at least 444,580 hectares (1.1 million acres) of crops. Damage to agriculture and infrastructure alone was listed at PKR250 billion (USD2.64 billion).

Elsewhere in Asia, seasonal monsoon flooding was recorded in India, Bangladesh, Thailand, Vietnam, and Cambodia. In India, at least 56 people were killed after floods inundated roughly 400,000 homes.

Additional flooding also occurred in parts of Europe, where a slow-moving storm system brought torrential rainfall across northern sections of the United Kingdom. At least three people were killed, and officials in the UK's Northeast region estimated damages beyond GBP50 million (USD81 million). In southern Spain, at least 10 people were killed after floods affected six separate provinces. The Insurance Compensation Commission noted that 19,500 claims were filed with payouts totaling EUR120 million (USD155 million).

Rounds of severe weather swept across central and eastern sections of the United States, with one particular 48-hour stretch affecting an area from the Central Plains to New England. At least four people were killed as hail and damaging winds were recorded. The system also spawned two tornadoes (an EF-0 and an EF-1) in the New York City metropolitan area. Total economic losses were estimated at USD225 million, with various insurers receiving at least 35,000 claims with payouts in excess of USD125 million.

Severe weather also occurred in several South American countries as a powerful storm system killed at least nine people and injured more than 100 others. Paraguay was the hardest-hit country, where more than 5,000 homes were destroyed. Uruguay, Bolivia and Argentina also reported impacts.

Typhoon Sanba caused economic losses of JPY950 million (USD12.2 million) in Japan and KRW389 billion (USD389 million) in South Korea. Typhoon Jelawat left two people dead in Japan, where the system made landfall and damaged at least 3,800 homes and structures. Hurricane Leslie made landfall in Canada's Newfoundland after brushing by Bermuda. Damage was minimal, with economic losses roughly CAD10 million (USD10.1 million).

A magnitude-7.6 earthquake struck Costa Rica, killing at least three people and injuring 30 others. Total economic losses were listed at approximately CRC22.5 billion (USD45 million). In China, two magnitude-5.6 tremors struck Yunnan and Guizhou provinces. At least 81 people were killed, more than 452,000 homes were damaged and economic losses were listed at CNY7.31 billion (USD1.15 billion).

United States

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/ Claims ^{2,3}	Damage Estimates ^{2,4} (USD)
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	Thousands+	Millions+
9/23	Wildfire	California	1+	38+	Unknown

Strong thunderstorms associated with an elongated cold front spawning damage from the Central Plains to New England on the 7th and the 8th. At least four people were killed in Oklahoma. According to the Storm Prediction Center (SPC), the storms prompted reports of tornadoes (4), damaging winds (662) and hail (60). The initial focus was the Plains, Midwest and Tennessee Valley, where up to baseball-sized hail was recorded. As the front shifted eastward, two tornadoes (an EF-0 and an EF-1) touched down in the New York City metropolitan area. Winds gusting in excess of 60 mph (95 kph) also led to damage from the Carolinas to Maine. Total economic losses were estimated at USD225 million, with various insurers receiving at least 35,000 claims with payouts in excess of USD125 million.

The combination of monsoonal moisture and an upper level disturbance prompted unusually heavy rainfall across parts of the Desert Southwest on the 10th and the 11th. The hardest-hit locations came in the greater Las Vegas, Nevada area and also California's Coachella Valley after more than entire years' worth of rainfall fell. Hundreds of homes and vehicles were damaged as several feet (meters) of muddy water engulfed several locations. In Utah, a dike burst in the city of Santa Clara which into the downtown area. Additional flooding was reported in northeastern sections of Arizona.

Rounds of severe weather impacted parts of the central and eastern United States between the 21st and the 26th, causing reports of widespread damage in several states. There were no fatalities or serious injuries. The most notable storms came on the 21st and 22nd in Indiana, Ohio and Pennsylvania, where up to quarter-sized hail and winds gusting in excess of 65 mph (100 kph) occurred. The vast majority of the damage was caused by hail and fallen trees and power poles onto homes, other structures and vehicles.

A wildfire in rural San Diego County destroyed 11 homes, 14 outbuildings and 11 vehicles between the 23rd and the 27th, killing at least one person. Two additional homes were damaged. The Shockey Fire charred 2,556 acres (1,034 hectares) of land.

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

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/ Claims ^{2,3}	Damage Estimates ^{2,4} (USD)
9/5	Earthquake	Costa Rica	3+	500+	45+ million
9/8-9/11	HU Leslie	Canada, Bermuda	0	Hundreds+	10+ million

A magnitude-7.6 earthquake struck Costa Rica on the 5th, killing at least three people and injuring 30 others. The tremor occurred at 8:42 AM local time (14:42 UTC) with an epicenter located 10 kilometers (6 miles) northeast of Hojanca, Costa Rica. While the temblor was felt throughout the country, damage was generally limited to areas closest to the epicenter. Approximately 250 structures were affected on the Nicoya Peninsula, while roads and bridges were also impacted. In San Jose, damage was confined to broken windows, cracked walls and fallen indoor contents. Total economic losses were listed at approximately CRC22.5 billion (USD45 million).

Hurricane Leslie made landfall in Canada's Newfoundland on the 11th after initially brushing by Bermuda. Damage in Bermuda was limited, with scattered power outages and fallen tree branches reported across the island. In Canada, winds gusting to nearly 140 kph (85 mph) downed trees and power lines as heavy rains caused isolated flooding. However, damage to personal and commercial property was minimal. Total economic losses were listed at approximately CAD10 million (USD10.1 million).

South America

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/ Claims ^{2,3}	Damage Estimates ^{2,4} (USD)
9/19	Severe Weather	Paraguay, Uruguay, Bolivia	9+	6,000+	Millions+

A strong storm system affected several South American countries on the 19th, killing at least nine people and injuring more than 100 others. The hardest-hit country was Paraguay, where the National Emergency Response Center noted that more than 5,000 homes were destroyed in the towns of Roque Alonso, Neembucu and Encarnacion after winds gusted in excess of 120 kph (75 mph). In Uruguay, high blew out windows in highrise buildings in Montenegro and Punta del Este, while also forcing the closure of ports, airports and three main highways. Additional impacts were recorded in Bolivia and Argentina.

Europe

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/ Claims ^{2,3}	Damage Estimates ^{2,4} (USD)
6/1-9/30	Drought	Slovenia	0	Unknown	162+ million
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

A severe summer drought continued to linger across Slovenia during the month of September, with the Chamber of Agriculture and Forestry citing economic damages of EUR128 million (USD162 million). The combination of a lack of rainfall and temperatures soaring to 37°C (99°F) led to a summer that proved costly for agriculture. Maize, corn, grain, vegetable and apple orchard crops across the country all sustained damage, with the Pomurje and Primorsko regions sustaining the worst effects.

A strong winter storm struck northern and northeastern sections of Iceland on the 9th. According to the Iceland State Electricity operations center, extensive damage occurred to the electrical infrastructure as the combination of high winds and heavy snow brought down power lines and power poles. Total economic damages were listed at ISK300 million (USD2.43 million).

A slow-moving storm system brought torrential rainfall and periods of gusty winds across northern sections of the United Kingdom on the 24th and 25th, killing at least three people. Many areas during the 48-hour stretch received nearly twice its typical monthly rainfall average, as floods damaged at least 570 homes and businesses in an area from north Wales to Northumberland. Among the hardest-hit locations came in Morpeth, Newburn, Cheshire, Rothbury and Gilling West. Overflowing rivers also prompted the closure of major roads, railways and bridges. Officials in the UK's Northeast region estimated damages beyond GBP50 million (USD81 million). Local insurers reported a 52% increase in storm claims.

Heavy rainfall caused widespread flooding in southern Spain between the 27th and 29th, killing at least 10 people. The province of Malaga was hardest-hit, where the Guadalahorce River overflowed its banks and damaged a large number of homes in the town of Alora. Damage reports to residential and commercial property and infrastructure were also received in the provinces of Granada, Sevilla, Almeria, Valencia and Cordoba. A tornado touched down in the town of Gandia as well, injuring 35 people. The Insurance Compensation Commission noted that at least 19,500 property, commercial and auto claims were filed with payouts in excess of EUR120 million (USD155 million). Total economic losses were even higher.

Africa

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/ Claims ^{2,3}	Damage Estimates ^{2,4} (USD)
9/27-9/28	Flooding	Somalia	20+	3,500+	Unknown

A year's worth of rainfall fell across central Somalia's Hiiraan Region on the 27th and the 28th, causing widespread flooding. At least 20 people were killed in the town of Beletweyne after the Shabelle River overflowed its banks. More than 3,500 homes were damaged or destroyed.

Asia

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/ Claims ^{2,3}	Damage Estimates ^{2,4} (USD)
8/15-9/30	Flooding	Thailand	0	88,438+	Unknown
8/21-9/30	Flooding	Pakistan	442+	407,138+	2.64+ billion
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	5+	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+	3,815+	5.7+ million

Seasonal monsoon rains continued to fall across parts of Thailand during September, after initially beginning in mid-August. At least 14 northern and central provinces were impacted, with the Disaster Prevention and Mitigation Department reporting that a total of 235,545 people from 88,438 homes were affected by flood inundation. One of the more notable damage locations came in the city of Sukhothai, where a series of levee failures occurred along the Yom River. Elsewhere, government officials released water from the Chao Phraya Dam in a precautionary move to minimize a larger flood threat.

Torrential rainfall continued to fall across several sections of Pakistan during the month of September, as the death toll rose to at least 442. Another 2,912 people were injured. The monsoonal rains, which began in mid-August, affected provincial and regional areas of Khyber Pakhtunkhwa, Azad Jammu & Kashmir, Punjab, Sindh, Balochistan, Gilgit-Baltistan, and Islamabad. Pakistan's National Disaster Management Authority (NDMA) reported that flooding had damaged or destroyed at least 407,138 homes while also inundating vast areas of commercial property and more than 444,580 hectares (1.1 million acres) of cropland. Damage to agriculture and infrastructure alone was listed at PKR250 billion (USD2.64 billion).

Periods of heavy rainfall affected multiple sections of China between August 31st and September 5th, killing at least five people. Among the hardest-hit provinces by flooding and landslides included Shaanxi, Yunnan, Inner Mongolia, Henan, and Hunan. According to the Ministry of Civil Affairs (MCA), at least 38,700 homes and structures were damaged or destroyed and 55,000 hectares (136,000 acres) of crops were submerged. Total economic damages were listed at CNY955 million (USD151 million).

Heavy monsoonal rains inundated central and northern Vietnam between the 4th and the 11th, leaving at least 32 people dead and 38 others injured. According to the Central Steering Committee for Storm and Flood Control, the provinces of Ha Tinh, Nghe An and Thanh Hoa were most affected after excessive rainfall prompted landslides, flash flooding and rivers to overflow their banks. More than 10,180 homes were damaged or destroyed and at least 50,000 hectares (123,550 acres) of crops were submerged. Economic losses to agriculture and infrastructure was listed at VND459 billion (USD22 million).

Two magnitude-5.6 earthquakes struck China's mountainous southwest on the 7th, killing at least 81 people and injuring 821 others. The first was reported with an epicenter located 127 kilometers (79 miles) northwest of Liupanshui, China at 11:19 AM local time (3:19 UTC); while the second occurred two kilometers (one mile) southwest of Jiaokui, China nearly an hour later. Reports from the MCA noted that in Yunnan Province alone, more than 436,600 homes had been damaged or destroyed. In Guizhou Province, more than 16,100 homes sustained damage. Significant power outages and infrastructure damage was also prevalent. Economic losses were listed at CNY7.31 billion (USD1.15 billion). The China Insurance Regulatory Commission (CIRC) noted insured losses of CNY300 million (USD48 million).

Heavy rains inundated at least six Chinese provinces between the 7th and the 13th, killing at least 21 people. According to the MCA, rainfall totals in excess of 250 millimeters (9.84 inches) fell in multiple areas of each provincial region that prompted widespread flooding and landslides. A combined 100,000 homes were damaged or destroyed, with farmers reporting more than 150,000 hectares (370,650 acres) of cropland submerged. Total economic losses were listed at CNY31.1 billion (USD4.92 billion).

A magnitude-5.0 earthquake struck China's Yunnan Province on the 11th, causing widespread damage. The tremor occurred with an epicenter 11 kilometers (6 miles) east-southeast of Dianyong, China at 11:21 AM local time (3:21 UTC). The MCA reported that at least 17,200 homes were damaged or destroyed in Shidian County, with total economic losses listed at CNY110 million (USD17 million).

A series of rain-spawned landslides struck the Indian state of Uttarakhand on the 14th, killing at least 47 people. The districts of Rudraprayag and Bageshwar were most affected. Government officials allocated INR1.08 billion (USD20 million) for relief and recovery efforts.

A magnitude-5.0 earthquake struck China's Xinjiang Province on the 14th, with the MCA noting that at least 1,600 homes were damaged or destroyed. The tremor occurred with an epicenter 95 kilometers (59 miles) east-southeast of Yining Xian, China at 11:21 AM local time (3:21 UTC). Total economic losses were listed at CNY800 million (USD127 million).

A weakened Super Typhoon Sanba made landfalls in South Korea and Japan between the 15th and the 17th, bringing periods of very gusty winds and heavy rainfall. At least two people were killed. Impacts were first felt across Japan's Ryukyu Islands, including Okinawa and Ishigaki. In total, more than 5,050 homes and structures were damaged in the country. Economic losses in Japan were JPY950 million (USD12.2 million). In South Korea, impacts were felt on the mainland and also the island of Jeju. According to the National Emergency Management Agency (NEMA), damage occurred to at least 624 homes and 107 roads, bridges and tunnels. Total economic losses were listed at KRW389 billion (USD349 million), including costs to infrastructure, public buildings and agriculture.

Monsoon rains spawned flash floods in at least five provinces in Cambodia between the 17th and the 26th, killing five people. The floods destroyed more than 14,300 homes and submerged 29,200 hectares (72,150 acres) of agriculture (primarily rice paddy and cassava crops).

Torrential monsoonal rains affected northeastern India and Bangladesh between the 21st and the 28th, as widespread flooding and landslides left at least 56 people dead. In India, the hardest-hit areas came in the states of Assam, Sikkim, Arunachal Pradesh and the island of Majuli. According to local officials, more than 400,000 homes were reportedly inundated. In Assam alone, 2,600 villages and more than 400,000 hectares (988,400 acres) of crops were submerged. Early economic losses were listed at INR1.8 billion (USD34.2 million). In Bangladesh, government authorities noted that 250,000 people were trapped in their homes due to an overflowing Brahmaputra River.

A massive avalanche near the peak of the Himalayan's 8,156-meter (26,759-foot) Mount Manaslu on the 23rd left at least eight people dead and four others missing.

A weakened Super Typhoon Jelawat made landfall in Japan's Aichi Prefecture on the 30th after first tracking very near the southern islands of Okinawa. At least two people were killed and 173 others were injured. Officials in Okinawa reported that more than 600 homes were damaged. The storm also knocked out power to more than 50% of the island's homes. On Japan's mainland, Jelawat brought periods of gusty winds and heavy rains to Honshu Island which prompted the evacuation of 25,000 households due to flooding concerns. In total, at least 3,815 homes and structures were damaged countrywide. Early economic losses were listed at JPY450 million (USD5.7 million).

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

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/ Claims ^{2,3}	Damage Estimates ^{2,4} (USD)
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No major natural disaster events occurred in Oceania during the month of September.

APPENDIX

Updated January – August 2012 Data

United States

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/Claims ^{2,3}	Damage Estimates ^{2,4} (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+ billion
3/4-3/9	Flooding	Hawaii	0	Hundreds+	37.5+ million
3/12	Flooding	Louisiana	0	1,500+	2+ 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+	310,000+	3.25+ 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
6/1-8/30	Drought	United States	0	Unknown	Billions+
6/2-6/4	Severe Weather	Plains, Midwest, Ohio Valley	3+	Hundreds+	Millions+
6/6-6/7	Severe Weather	Colorado, Wyoming	0	115,000+	1.6+ 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

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/Claims ^{2,3}	Damage Estimates ^{2,4} (USD)
6/23-6/27	TS Debby	Florida	7+	20,000+	200+ million
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+	60,000+	500+ 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+ billion

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

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/Claims ^{2,3}	Damage Estimates ^{2,4} (USD)
2/11-2/12	Flooding	Canada	0	200+	Unknown
3/20	Earthquake	Mexico	2+	44,000+	300+ 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
6/9-6/10	Severe Weather	Canada	0	2,500+	Millions+
6/15	HU Carlotta	Mexico	7+	31,500+	105+ 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
8/3-8/10	HU Ernesto	Caribbean, Mexico	7+	Hundreds+	Unknown
8/12	Severe Weather	Canada	0	Thousands+	100s of millions
8/17-8/18	TS Helene	Mexico, Caribbean	2+	Hundreds+	17+ million
8/22-8/26	HU Isaac	Caribbean	34+	1,000+	Unknown

South America

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/Claims ^{2,3}	Damage Estimates ^{2,4} (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

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/ Claims ^{2,3}	Damage Estimates ^{2,4} (USD)
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+	Unknown
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+

Europe

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/ Claims ^{2,3}	Damage Estimates ^{2,4} (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
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+	3,000+	6.25+ 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
6/4	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
6/26-6/27	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+ million
7/14	Severe Weather	Poland	1+	100+	5.9+ million
7/19	Severe Weather	Georgia	0	20,000+	91+ million

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/Claims ^{2,3}	Damage Estimates ^{2,4} (USD)
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

Africa

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/Claims ^{2,3}	Damage Estimates ^{2,4} (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+ 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
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
7/22-7/24	Flooding	Nigeria	39+	600+	Unknown
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	52+	50,000+	1.3+ million
8/11-8/12	Flooding	Nigeria	33+	12,000+	1+ million
8/15-8/31	Flooding	Senegal	13+	Thousands+	10+ million
8/25-8/31	Flooding	Cameroon	15+	22,000+	Millions+

Asia

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/Claims ^{2,3}	Damage Estimates ^{2,4} (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+ 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+ million
2/18	Landslide	India	6+	Unknown	Unknown

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/ Claims ^{2,3}	Damage Estimates ^{2,4} (USD)
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+ million
3/27	Flooding	Philippines	11+	10,000+	2.1+ million
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+ 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+	1,845+	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+ 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

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/ Claims ^{2,3}	Damage Estimates ^{2,4} (USD)
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
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
8/18	Earthquake	Indonesia	6+	1,108+	Unknown
8/21-8/23	Flooding	India	27+	7,500+	Unknown
8/21-9/30	Flooding	Pakistan	442+	407,138+	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	China	0	35,000+	4.63+ billion
8/31	Earthquake	Philippines	1+	300+	Unknown

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

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/ Claims ^{2,3}	Damage Estimates ^{2,4} (USD)
1/12	TC Heidi	Australia (Western Australia)	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, Queensland)	1+	6,408+	920+ million
2/24-3/16	Flooding	Australia (NSW, Victoria)	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 (Queensland)	0	150+	21+ million
3/29-4/3	Flooding	Fiji	7+	15,000+	71.3+ million
6/3-6/6	Severe Weather	Australia (NSW, Victoria)	0	1,500+	Unknown
6/10-6/12	Severe Weather	Australia (Western Australia)	1+	450+	Millions+

Event Date	Event Name Or Type ¹	Event Location	# of Deaths ²	# of Structures/ Claims ^{2,3}	Damage Estimates ^{2,4} (USD)
6/19	Earthquake	Australia (Victoria)	0	880+	Unknown

¹ TD = Tropical Depression, TS = Tropical Storm, HU = Hurricane, TY = Typhoon, STY = Super Typhoon, CY = Cyclone

² As reported by public news media sources and official government agencies

³ **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.

⁴ Damage estimates obtained from various public media sources, including news websites, publications from insurance companies, financial institution press releases and official government agencies. These estimates can include insured or economic losses.

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