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Global Catastrophe Recap:

August 2014

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Executive Summary

- Strong earthquakes cause billions of dollars of damage in the United States and China
- Global flood events tally more than USD4.0 billion in economic damage
- Iselle becomes second tropical storm to make landfall on Hawaii's Big Island since 1950

The strongest earthquake to strike San Francisco's Bay Area in 25 years was recorded in the morning hours of August 24, causing widespread damage to property, infrastructure, and wineries. At least 258 people were injured. The magnitude-6.0 tremor had an epicenter located 6.0 kilometers (3.7 miles) northwest of American Canyon, California. In the city of Napa alone, at least 1,120 homes and other buildings were structurally damaged. Total economic losses were expected to minimally reach USD2.0 billion. Insured losses will be much less – likely in the hundreds of millions (USD) – given low residential earthquake insurance penetration in Napa County (5.3%) and surrounding counties (average of ~10%).

A USGS-registered magnitude-6.1 earthquake struck Yunnan Province in southwest China on August 3, killing at least 617 people and injuring more than 3,143 others. Extensive damage occurred throughout Yunnan Province, with the heaviest impacts sustained nearest the epicenter in Ludian County. The Ministry of Civil Affairs (MCA) indicated that more than 25,800 homes collapsed and an additional 200,000 sustained varying levels of damage. Total economic losses were anticipated to be at least CNY20.14 billion (USD3.3 billion).

Earthquake events were also recorded in Peru, Ecuador, Iran, Algeria, and South Africa.

Excessive rainfall led to substantial flooding in parts of the Midwest, Northeast and Mid-Atlantic, killing at least one person. Some of the most severe damage was recorded in the greater Detroit, MI metro region, where two months' worth of precipitation fell in just 24 hours. Similar rainfall and flooding occurred in Baltimore, MD and Long Island, NY. Total economic losses were expected to top USD2.0 billion, with more than USD1.0 billion cited in Detroit metro alone. Insured losses to private insurers and the NFIP were in excess of USD500 million.

Multiple stretches of heavy rains and thunderstorms led to flooding throughout several sections of China during August. At least 37 people died, more than 40,000 homes were damaged or destroyed, and tens of thousands of hectares (acres) of crops were submerged. Total aggregated economic losses were at least USD1.2 billion.

Elsewhere, monsoonal rains and active weather patterns led flooding and landslides that left a combined 573 casualties in parts of India, Nepal, Japan, Bangladesh, Cambodia, Pakistan and South Korea. Flash flood events were also registered in Italy, Sweden and Denmark.

Hurricane Iselle became only the second tropical storm since 1958 to make landfall on Hawaii's Big Island, killing one person. Total economic damages were listed at USD66 million, with most losses attributed to the agricultural sector.

Super Typhoon Halong made landfall in Japan at tropical storm strength, bringing torrential rains and gusty winds to southern and central sections of the country. Ten people were killed and 96 others injured. Total economic damage from the storm was projected to reach into the hundreds of millions of dollars (USD).

Severe drought conditions continued and worsened in August in Guatemala and Sri Lanka.

United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
8/3	Flooding	California	1	100+	Millions+
8/8-8/10	HU Iselle	Hawaii	1	278+	66+ million
8/11-8/13	Flooding	Midwest, Northeast, Mid-Atlantic	1	70,000+	2.0+ billion
8/19	Flooding	Arizona	0	100+	10+ million
8/24	Earthquake	California	1	Thousands+	2.0+ billion
8/31-9/2	Severe Weather	Midwest, Plains, Northeast	0	Thousands+	Millions+

Mudslides struck in California's San Gabriel Mountains on August 3 that damaged roughly 100 homes and structures. The nearly 4.00 inches (102 millimeters) of rain that fell in one hour's time was a rainfall event only seen once every 500 years. The areas of Mt. Baldy, Forest Falls and Highland were worst affected as up to 10 feet (3.05 meters) of mud collapsed down the mountainside. One person was killed.

Hurricane Iselle became only the second tropical storm since 1958 to make landfall on Hawaii's Big Island on August 8, killing one person. The storm made landfall with sustained wind speeds of 60 mph (95 kph) as strong wind gusts brought down trees and power lines across the state. Roads were flooded, 278 residential homes and public sector buildings were damaged, but there were no reports of any major widespread structural damage. Total economic damages were listed at USD66 million, with most losses attributed to the agricultural sector.

Multiple days of excessive rainfall led to substantial flooding in parts of the Midwest, Northeast and Mid-Atlantic between the 11th and 13th, killing at least one person. Some of the most severe damage was recorded in the greater Detroit, MI metro region, where two months' worth of precipitation fell in just 24 hours. Tens of thousands of homes were damaged and infrastructure was severely impacted. Similar rainfall and flooding occurred in Baltimore, MD and Long Island, NY, where rainfall totals equaled a 1-in-100 year event. Total economic losses were expected to reach USD2.0 billion, with more than USD1.0 billion cited in Detroit metro alone. Insured losses to private insurers and the NFIP were in excess of USD500 million.

Parts of Arizona were struck by flash floods on the 19th as abundant moisture unleashed torrential amounts of rain across the state. No serious injuries or fatalities were reported. The town of New River recorded almost 5.00 inches (13 centimeters) of rain – a 1-in-200 year rainfall event – as dozens of homes were inundated by floodwaters. Total economic damages in the region were estimated around USD10 million.

The strongest earthquake to strike San Francisco's Bay Area in 25 years was recorded in the early morning of the 24th causing widespread damage to property, infrastructure, and wineries. One person was killed, and 258 others were injured. The magnitude-6.0 tremor was registered at 3:20 AM local time (10:20 UTC) with an epicenter located 6 kilometers (4 miles) northwest of American Canyon, California. In the city of Napa, at least 1,120 homes and other buildings were structurally damaged, with additional damage noted in Vallejo and Mare Island. The main tremor caused at least 50 fires and more than 100 water main breaks. Total economic losses were expected to minimally reach USD2.0 billion, with insured losses much less due to low residential earthquake insurance penetration in Napa County (5.3%) and surrounding counties (average of ~10%).

Severe weather crossed central and eastern sections of the U.S. between August 31 and September 2, causing damage in more than a dozen states in the Midwest, Plains, Northeast and Mid-Atlantic. No serious injuries or fatalities were reported. The stretch was highlighted by multiple tornado touchdowns in Michigan and Kansas, plus up to baseball-sized hail and winds gusting to 80 mph (130 kph). Total economic losses were expected in the millions of dollars (USD).

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
8/1-8/4	HU Bertha	Caribbean, Bahamas	0	Hundreds+	Unknown
8/4	Flooding	Canada	0	2,300+	250+ million
8/7-8/8	Severe Weather	Canada	0	25,000+	600+ million
6/1-8/31	Drought	Guatemala	0	Unknown	58+million

Hurricane Bertha tracked through the Caribbean and the Bahamas between the 1st and 4th, though no serious injuries, fatalities or major damage were reported. Power outages were the biggest burden from Bertha in Martinique, Puerto Rico, the Dominican Republic, Turks and Caicos Islands and the Bahamas.

Heavy rain and thunderstorms led to flooding across portions of Canada's Ontario Province on the 4th. The most substantial damage was recorded in the town of Burlington, where 2,300 homes were inundated by floodwaters following 191 millimeters (7.52 inches) of rain in a matter of hours. Total economic losses were estimated at CAD275 million (USD250 million), and the Insurance Bureau of Canada cited insured losses at CAD90 million (USD83 million).

Severe thunderstorms swept across Canada's Alberta Province on the 7th and 8th, causing extensive property and automobile damage in the town of Airdie and surrounding communities. Local officials estimated that 75 percent of all cars in Airdrie were damaged, and hundreds of homes had shattered windows and punctured roofs due to the tennis ball-sized hail stones. Farmers in the region also reported heavy losses to crops. The Insurance Bureau of Canada cited insured losses at CAD450 million (USD410 million), with overall economic losses even higher.

Government officials declared a State of Emergency across much of Guatemala as the country continued to suffer from one of its worst droughts in recent history during August. The prolonged dry spell left an estimated 80% of the country's annual corn crop damaged or destroyed. Total economic damages to Guatemala's agricultural sector was estimated at GTQ450 million (USD58 million).

South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
8/12	Earthquake	Ecuador	3	Hundreds+	Unknown
8/24	Earthquake	Peru	0	200+	Millions+

A magnitude-5.1 earthquake struck near Quito, Ecuador on the 12th, killing at least three people and injuring 18 others. The tremor was registered at 2:58 PM local time (19:58 UTC) with an

epicenter 23 kilometers (14 miles) northeast of the capital. Damage was not widespread, though landslides did block access to some roadways.

A strong magnitude-6.9 earthquake struck southern Peru on the 24th, injuring eight people. The tremor was registered at 6:22 PM local time (23:22 UTC) with an epicenter located 43 kilometers (27 miles) east-northeast of Tambo. More than 700 people were affected as a result of the temblor which destroyed 31 homes and caused minor damage to another 141 properties. Varying degrees of damage were also sustained to 55 public buildings, including schools, government buildings and a health center.

Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
8/2	Flooding	Italy	4	Hundreds+	Millions+
8/30-8/31	Flooding	Denmark, Sweden	0	Thousands+	Millions+

Flash floods swept through Refrontolo, Italy on the 2nd, killing at least four people who were attending a festival. Twenty others were injured following an excessive rainfall event that caused the Lierza River to burst its banks. The village, which sits in the foothills of the Venetian Prealps, was beneath 1.0 meter (3.0 feet) water as homes, businesses and vehicles were destroyed.

Torrential rains on the 30th and 31st caused significant flash flooding across parts of eastern Denmark and southwestern Sweden. During a 24-hour stretch, up to 104 millimeters (4.09 inches) of rain fell in Malmo, Sweden and 120 millimeters (4.72 inches) fell in Copenhagen, Denmark. The rains in Malmo were cited as a 1-in-100 year rainfall event; while in Denmark, the rains were cited as a 1-in-10 year rainfall event. Thousands of vehicles and homes were inundated, and transport via roads and rail was disrupted due to high water levels. Total economic and insured losses were estimated to reach into the millions of dollars (USD).

Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
8/1	Earthquake	Algeria	6	Thousands+	Unknown
8/5	Earthquake	South Africa	1	400+	Unknown
8/1-8/31	Flooding	Niger	18+	5,511+	Millions

A magnitude-5.6 earthquake struck northern Algeria on the 1st, killing at least six people and injuring 420 others. The tremor occurred at 05:11 AM local time (4:11 UTC) with an epicenter 11 kilometers (6.8 miles) north-northwest of Bordj El Kiffan on the Mediterranean coast. A high volume of properties sustained varying levels of damage I nthe region, including in Algiers were damaged.

A magnitude-5.4 earthquake struck South Africa on the 5th, killing at least one person and injuring 38 others. The tremor was recorded at 12:23 PM local time (10:23 UTC) with an epicenter located 3.0 kilometers (1.9 miles) east-northeast of Orkney. Shaking from the temblor lasted approximately one minute, and damage was reported to at least 400 homes.

Seasonal rains during the month of August led to widespread flooding throughout multiple regions of Niger. At least 18 people have died, as floods have been particularly severe in parts of Tillabery, Dosso, Maradi, and Tahoua. Federal officials reported that at least 5,511 homes have been damaged or destroyed by floodwaters in addition to wide swaths of agriculture.

Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/1-8/31	Drought	Sri Lanka	0	Unknown	25+ million
7/30-8/31	Flooding	Cambodia	45	11,590+	Millions+
8/2	Landslide	Nepal	156	129+	15+ million
8/3	Earthquake	China	617	225,000+	3.3+ billion
8/3-8/4	Flooding	India	35	25,000+	100s of Millions
8/3-8/6	TS Nakri	South Korea, Japan	14	2,000+	Millions+
8/4-8/8	Flooding	Southeast Asia	9	Thousands+	Millions+
8/9-8/11	Flooding	Indonesia	3	2,638+	Unknown
8/10-8/12	STY Halong	Japan	10	7,218+	100s of Millions
8/11-8/16	Flooding	India, Nepal	214	35,000+	82+ million
8/12-8/13	Flooding	China	27	30,000+	487+ million
8/15	Flooding	Pakistan	16	500+	Unknown
8/15-9/10	Flooding	Bangladesh	14	275,000+	150+ million
8/16-8/20	Flooding	Japan	73	2,500+	Millions+
8/18	Earthquake	Iran	0	17,000+	44+ million
8/22-8/28	Flooding	China	10	10,000+	700+ million
8/25	Flooding	South Korea	13	Thousands+	Millions+

Drought conditions worsened in Sri Lanka during August as more than 1.5 million residents in northern and central sections of the country were most severely affected. Official estimates noted that the land area being farmed in Sri Lanka was down 42% from 2013. The government approved LKR3.2 billion (USD25 million) for relief and recovery efforts across the nation.

Excessive monsoonal rains fell across Cambodia from late July through August, spawning floods that left at least 45 people dead. The rains prompted the Mekong River to overflow its banks in 12 of the country's 25 cities and provinces. At least 11,590 homes were damaged or destroyed and 12,700 hectares (31,382 acres) of crops were destroyed.

Heavy rains in the mountainous north of Central Nepal prompted a massive landslide that killed 156 people in the Mankha village on the 2nd. The slide destroyed 129 properties. Economic damages were listed at NPR1.5 billion (USD15 million).

A USGS-registered magnitude-6.1 earthquake struck Yunnan Province in southwest China on the 3rd, killing at least 617 people and injuring more than 3,143 others. Extensive damage occurred throughout Yunnan Province, with the heaviest impacts sustained nearest the epicenter in Ludian County's Longtoushan Township. Data from the Ministry of Civil Affairs (MCA) indicated that more than 25,800 homes collapsed, with an additional 40,600 sustaining severe levels of damage and a further 151,200 with lesser amounts of damage. Damage also occurred in Guizhou and Sichuan provinces. Total economic losses were listed at CNY20.14 billion (USD3.3 billion).

Torrential monsoonal rains affected the eastern India state of Orissa on the 3rd and 4th, killing at least 35 people. The flooding rains completely inundated nearly 4,000 villages after many rivers (including the Mahanadi, Baitarani, and Budha) overflowed their banks. Twenty-three districts were affected and 179,000 people were displaced.

Tropical Storm Nakri developed and made landfall in South Korea before its remnants entered Japan between the 3rd and 6th. At least 14 people were killed. In Korea, most of the damage was sustained in South Chungcheong and North Jeolla Provinces, where wide swaths of agricultural land were submerged and hundreds of properties were damaged. In Japan, more than 800 millimeters (31.50 inches) of rain was recorded in parts of Kochi prefecture. The excessive rains triggered landslides and flooding that damaged or destroyed 1,467 homes.

Monsoonal rains led to flooding across portions of Southeast Asia between the 4th and 8th, including Thailand, Cambodia, Laos and Myanmar. In Thailand, the province of Amnat Charoen reported more than 1,000 homes submerged following an overflowing Mekong River. Also along the Mekong, eight people died in Cambodia and one died in Laos. The Bago River in Myanmar also burst its banks as thousands of people were left homeless in five villages.

Torrential rainfall and flooding on the Indonesian islands of Sulawesi and Kalimantan left three people dead between the 9th and 11th. As many as 2,638 homes were flooded as tens of thousands of people were forced to flee due to water heights reaching 1.0 meter (3.3 feet) in many villages. More than 4,500 hectares (11,000 acres) of rice fields were inundated, and local infrastructure was heavily affected as well.

Super Typhoon Halong made landfall in Japan on August 10 at tropical storm strength, bringing torrential rains and gusty winds to southern and central sections of the country. Ten people were killed and 96 others injured. Parts of Shikoku Island recorded over 1,080 millimeters (42.56 inches) of rainfall during a 72-hour period as the storm came ashore. Data from Japan's Fire and Disaster Management Agency (FDMA) indicated that 7,218 homes were damaged or destroyed throughout several prefectures and that infrastructure and agriculture was heavily affected as well. Total economic damage was estimated to reach into the hundreds of millions of dollars (USD).

Excessive monsoonal rains led to severe flooding and landslides across northern India and Nepal between the 11th and 16th, killing at least 214 people. The most catastrophic damage and flooding in India occurred in the states of Uttarakhand, Uttar Pradesh and Bihar in the Himalayan foothills and the Ganga River valley. In Nepal, overflowing rivers (such as the Kamala and Behri) left nearly 31,736 homes damaged. Total economic losses were listed at NPR8 billion (USD82 million).

Heavy rains inundated southern China on the 12th and 13th, causing damage in eight provincial regions. Twenty-seven people were killed. Data from the MCA indicated that nearly 30,000 homes were damaged or destroyed following extensive flash flooding from overflowing rivers and landslides. Total economic losses were listed at CNY3.0 billion (USD487 million).

Severe thunderstorms struck the northern Pakistan city of Peshawar the 15th, leaving 16 people dead and 82 others injured. The torrential monsoon rains caused severe damage to hundreds of properties as the roofs of many buildings collapsed.

Monsoonal rains led to extensive flooding throughout portions of Bangladesh between mid-August into early September, killing at least 14 people. Rainfall totals in excess of 525 millimeters (20.67 inches) caused major flooding in 19 districts. The Disaster Management Information Center reported that at least 275,000 homes and other structures were damaged or destroyed, with 2.8 million people directly affected. More than 500,000 hectares (1.24 million acres) of crops were submerged. Total economic losses were listed at BDT11.4 billion (USD150 million).

Torrential rainfall caused severe flooding in western Japan between the 16th and 20th, which led to the deaths of at least 73 people in Hiroshima prefecture. Dozens more remain listed as missing. The most major impacts occurred on the 20th in Hiroshima, where 217.5 millimeters (8.56 inches) of rain fell in just three hours' time that triggered dozens of landslides. Total damages were estimated in the millions of dollars (USD).

A magnitude-6.2 earthquake struck western Iran on the 18th, injuring at least 415 people. The tremor struck at 07:02 local time (02:32 UTC) with an epicenter located 36 kilometers (22 miles) southeast of Abdanan in Ilam Province. At least 17,000 homes were damaged in Abdanan, Dehloran and Mourmori; while water and energy supplies were also disrupted. Total economic losses were listed at IRR1.16 trillion (USD44 million).

Inclement weather affected nine Chinese provincial regions with flooding rains, high winds and large hail between the 22nd and 28th, killing at least 10 people. Multiple storm systems crossed the country which led to more than 10,000 homes and other structures sustaining varying levels of damage. Parts of Guizhou, Hebei, Qinghai, Ningxia, Hunan, Sichuan, Inner Mongolia, Shaanxi, and Gansu provinces were all impacted. The MCA cited total economic losses at CNY4.3 billion (USD700 million).

Flash floods caused severe damage across southern South Korea's Busan region on the 25th, killing at least 13 people. Busan recorded 104 millimeters (4.09 inches) in a matter of hours, which caused floodwaters to sweep away cars and buses while pouring into basements of buildings and subway stations. Floodwaters also seeped into a nuclear reactor in Gijan County forcing operations to be stopped. Total economic losses were estimated well into the millions of dollars (USD).

Oceania (Australia, New Zealand, South Pacific Islands)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)

No major natural disaster events occurred in Oceania during the month of August.

Appendix

Updated 2014 Data: January – July

United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/1-9/1	Drought	Western U.S.	0	Unknown	4.0+ billion
1/1-1/5	Winter Weather	Midwest, Ohio Valley, Northeast	16	10,000+	200+ million
1/5-1/8	Winter Weather	Midwest, Northeast, Southeast	21	150,000+	3.0+ billion
1/11	Severe Weather	Southeast	2	5,000+	50+ million
1/20-1/22	Winter Weather	Central and Eastern U.S.	4	Thousands+	100+ million
1/26-1/29	Winter Weather	Southeast, Midwest, Mid-Atlantic	13	Thousands+	250+ million
2/3-2/6	Winter Weather	Midwest, Plains, Northeast	9	30,000+	250+ million
2/11-2/14	Winter Weather	Southeast, Northeast	25	50,000+	900+ million
2/20-2/21	Severe Weather	Midwest, Southeast, Mid-Atlantic	1	20,000+	175+ million
2/28-3/4	Winter Weather	Nationwide	12	Thousands+	Millions+
3/1-3/31	Flooding	Montana, Wyoming	0	Hundreds+	10+ million
3/6-3/7	Winter Weather	Southeast, Mid-Atlantic	0	12,500+	100+ million
3/22	Mudslide	Washington	41	50+	10+ million
3/27-3/29	Severe Weather	Midwest, Plains, Southeast	0	100,000+	800+ million
3/28	Earthquake	California	0	Hundreds+	25+ million
4/2-4/4	Severe Weather	Plains, Midwest, Southeast	0	160,000+	1.5+ billion
4/12-4/14	Severe Weather	Plains, Midwest, Southeast	0	100,000+	800+ million
4/27-5/1	Severe Weather	Central/Eastern U.S.	39	115,000+	1.6+ billion
5/7-5/9	Severe Weather	Plains, Midwest	0	25,000+	250+ million
5/10-5/15	Severe Weather	Plains, Midwest, Mid-Atlantic	0	80,000+	650+ million
5/11-5/20	Wildfires	Texas, California	2	400+	100+ million
5/18-5/23	Severe Weather	Midwest, Rockies, Northeast	0	400,000+	3.75+ billion
5/24-5/28	Severe Weather	Southwest	0	25,000+	200+ million
6/3-6/9	Severe Weather	Midwest, Plains, Rockies	3	115,000+	1.9+ billion
6/10-6/12	Severe Weather	Midwest, Plains, Rockies	0	20,000+	150+ million
6/12-6/13	Severe Weather	Texas	0	40,000+	550+ million
6/14-6/19	Severe Weather	Midwest, Plains, Rockies	2	60,000+	700+ million
6/24-6/25	Severe Weather	Colorado, Wyoming, Kansas	0	30,000+	275+ million
6/29-7/1	Severe Weather	Midwest, Plains, Ohio Valley	4	55,000+	550+ million
7/1-7/6	HU Arthur	Eastern Seaboard	0	Hundreds+	10+ million
7/7-7/9	Severe Weather	Central & Eastern U.S.	5	45,000+	350+ million
7/14-8/15	Wildfire	Washington	1	300+	75+ million
7/26-7/28	Severe Weather	Central & Eastern U.S.	0	30,000+	225+ million

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/13	Earthquake	Puerto Rico	0	Hundreds+	Unknown
1/1-3/31	Drought	Haiti	0	Unknown	Millions+
3/26	Winter Weather	Canada	0	Thousands+	Millions+
4/10	Earthquake	Nicaragua	1	2,354+	Millions+
4/18	Earthquake	Mexico	0	2,500+	Millions+
5/30-6/2	TS Boris	Mexico, Guatemala	6	Hundreds+	Unknown
6/17	Severe Weather	Canada	0	100+	50+ million
6/28-7/10	Flooding	Canada	0	Thousands+	745+ million
7/5-7/7	HU Arthur	Canada	0	Hundreds+	15+ million
7/7	Earthquake	Mexico, Guatemala	9	20,000+	25+ million

South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/1-2/28	Flooding	Bolivia	64	25,000+	100+ million
1/1-4/30	Drought	Brazil	0	Unknown	4.3+ billion
1/12	Flooding	Brazil	24	500+	Unknown
2/15-3/31	Flooding	Brazil, Bolivia, Peru	0	29,500+	200+ million
4/1	Earthquake	Chile	7	13,000+	100+ million
4/12-4/16	Wildfire	Chile	15	2,900+	34+ million
5/19-5/23	Severe Weather	Brazil	0	Thousands+	Millions+
6/7-6/30	Flooding	Brazil, Paraguay, Argentina	15	25,000+	300+ million

Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
12/23-3/1	Flooding	United Kingdom	0	420,000+	1.5+ billion
1/2-1/3	WS Anne	United Kingdom, France	0	Thousands+	100+ million
1/5-1/7	WS Christina	UK, France, Scandinavia	3	Thousands+	500+ million
1/26-1/30	Winter Weather	Central/Western Europe	4	5,000+	Millions+
1/26-2/3	Earthquakes	Greece	0	1,000+	Millions+
2/1-2/8	WS Nadja & Petra	Western/Central Europe	1	Thousands+	410+ million
2/11-2/13	WS Tini	Western Europe	1	Thousands+	700+ million
2/14-2/15	WS Ulla	Western Europe	5	Thousands+	100+ million
4/19-4/22	Flooding	Romania, Serbia, Bulgaria	4	Hundreds+	10+ million
5/13-5/21	Flooding	Southeast Europe	80	150,000+	4.5+ billion
5/24	Earthquake	Greece, Turkey	0	Hundreds+	Millions+
5/27-5/31	Flooding	Russia	0	16,000+	15+ million
6/8-6/10	Severe Weather	France, Germany, Belgium	0	400,000+	3.5+ billion
6/19-6/20	Flooding	Bulgaria	15	5,500+	38+ million
7/8-7/11	Severe Weather	Western & Central Europe	5	Thousands+	200+ million
7/26-7/30	Flooding	Western & Central Europe	3	5,000+	135+ million

Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/21	Flooding	Tanzania	1	4,086+	Millions+
1/20-2/10	Flooding	Zimbabwe	0	6,393+	20+ million
2/9-2/10	Flooding	Burundi	77	3,790+	Millions+
3/2-3/20	Flooding	South Africa	32	Thousands+	85+ million
3/29-4/1	CY Hellen	Madagascar, Comoros	17	2,000+	Millions+
6/28	Flooding	Nigeria	15	Thousands+	Unknown
7/25-8/4	Flooding	Sudan	17	3,000+	Unknown

Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/1-2/1	Volcano	Indonesia	32	Unknown	83+ million
1/1-4/30	Drought	Pakistan	180	Unknown	18+ million
1/2	Earthquake	Iran	1	Thousands+	Millions+
1/11-1/20	Flooding	Philippines	79	3,500+	13+ million
1/12-1/15	Winter Weather	China	0	Unknown	89+ million
1/14-1/17	Flooding	Indonesia	20	10,844+	153+ million
1/14-1/21	Flooding	Indonesia	12	38,762+	430+ million
1/15-1/31	Winter Weather	Thailand	63	Unknown	Unknown
1/17-1/20	Winter Weather	India	25	Unknown	Unknown
1/17-1/22	Winter Weather	China	0	Unknown	79+ million
1/19-1/22	Flooding	Indonesia	13	4,000+	515+ million
1/24-1/28	Flooding	Indonesia	26	100+	173+ million
1/31-2/1	TD Kajiki	Philippines	6	427+	3.2+ million
2/1-2/7	Winter Weather	Afghanistan, Kyrgyzstan	46	Hundreds+	Unknown
2/4-2/5	Winter Weather	China	0	10,000+	115+ million
2/7-2/14	Winter Weather	China	10	20,000+	675+ million
2/8-2/16	Winter Weather	Japan	95	288,000+	6.25+ billion
2/12	Earthquake	China	0	90,000+	350+ million
2/13-2/20	Flooding	Malaysia	2	5,000+	25+ million
2/14	Volcano	Indonesia	7	12,447+	103+ million
2/17	Winter Weather	South Korea	10	Unknown	11+ million
2/17-2/21	Winter Weather	China	0	5,000+	140+ million
2/22	Flooding	Indonesia	11	2,000+	Millions+
3/10-3/12	Winter Weather	India	17	1,922+	Unknown
3/12-3/14	Winter Weather	China	0	2,000+	50+ million
3/19-3/20	Severe Weather	China	1	5,000+	118+ million
3/23-3/27	Severe Weather	China	0	15,000+	95+ million
3/27-4/4	Severe Weather	China	27	80,000+	161+ million

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
4/5	Earthquake	China	0	15,000+	80+ million
4/7-4/9	Severe Weather	China	0	1,000+	230+ million
4/11-4/12	Flooding	Tajikistan	15	500+	Millions+
4/14-4/16	Severe Weather	China	0	1,000+	155+ million
4/16-4/20	Severe Weather	China	3	20,000+	156+ million
4/18	Winter Weather	Nepal	16	Unknown	Unknown
4/22-4/28	Severe Weather	China	9	10,000+	452+ million
4/24-5/15	Flooding	Afghanistan	2,665	15,000+	Unknown
4/27-4/28	Severe Weather	Bangladesh	16	1,000+	Unknown
5/3-5/7	Winter Weather	China	0	Unknown	417+ million
5/5	Earthquake	Thailand	1	4,000+	62+ million
5/8-5/15	Flooding	China	3	15,000+	450+ million
5/24	Earthquake	China	0	45,000+	60+ million
5/24-5/28	Flooding	China	37	95,000+	1.2+ billion
5/30	Earthquake	China	0	22,000+	Millions+
5/30-5/31	Severe Weather	India	15	Hundreds+	Unknown
6/1-6/7	Flooding	China	33	74,000+	675+ million
6/2	Flooding	Sri Lanka	27	1,487+	Millions+
6/6-6/7	Flooding	Afghanistan	150	2,000+	Unknown
6/9-6/10	Severe Weather	China	1	5,000+	193+ million
6/14-6/16	TS Hagibis	China	0	1,000+	131+ million
6/16-6/18	Severe Weather	China	11	5,000+	94+ million
6/17-6/21	Flooding	China	30	85,000+	925+ million
6/23-6/25	Flooding	China	4	5,000+	75+ million
6/25-6/30	Flooding	China	24	30,000+	483+ million
6/26-6/28	Flooding	India	27	Thousands+	Millions+
6/20-8/31	Drought	China	0	Unknown	5.2+ billion
7/3-7/7	Flooding	China	36	10,000+	547+ million
7/8-7/11	STY Neoguri	Japan	7	1,000+	100+ million
7/13-7/18	Flooding	China	66	80,000+	1.25+ billion
7/15-7/20	STY Rammasun	Philippines, China, Vietnam	206	780,000+	6.5+ billion
7/16-7/22	Flooding	India, Nepal	34	Thousands+	Unknown
7/19-7/20	Severe Weather	China	5	5,000+	275+ million
7/22-7/24	TY Matmo	Taiwan, China, Philippines	15	30,000+	570+ million
7/30	Landslide	India	209	44+	Unknown

Oceania

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/10-1/12	CY Ian	Tonga	1	1,130+	48+ million
1/12-1/19	Wildfires	Australia (WA, VIC, SA)	2	350+	25+ million
1/20	Earthquake	New Zealand	0	4,004+	Millions+

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/30-1/31	CY Dylan	Australia (QLD)	0	Unknown	Unknown
2/25-2/28	Flooding	Fiji	0	Hundreds+	2.1+ million
3/4-3/5	Flooding	New Zealand	0	1,000+	30+ million
3/9-3/12	CY Lusi	Vanuatu	12	Hundreds+	Millions+
4/3-4/4	Flooding	Solomon Islands	23	Thousands+	24+ million
4/10-4/14	CY Ita	Australia	0	680+	1.0+ billion
6/10-6/11	Severe Weather	New Zealand	0	6,000+	45+ million

Additional Report Details

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

Fatality estimates as reported by public news media sources and official government agencies.

Structures defined as any building – including barns, outbuildings, mobile homes, single or multiple family dwellings, and commercial facilities – that is damaged or destroyed by winds, earthquakes, hail, flood, tornadoes, hurricanes or any other natural-occurring phenomenon. Claims defined as the number of claims (which could be a combination of homeowners, commercial, auto and others) reported by various 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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