

August 2010 Monthly Cat Recap – Impact Forecasting

September 2, 2010

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Executive Summary

- Historic floods leave at least 1,677 people dead in Pakistan; over 1.25 million homes destroyed
- Massive landslide in China kills at least 1,467 people
- Tropical activity becomes more prevalent in the Atlantic and the Western Pacific

In the Americas, Hurricane Frank developed off the southern Mexico coastline and brought heavy rains and gusty winds, impacting at least 30,000 people while Hurricane Earl developed in the Atlantic Ocean and affected parts of the northern Leeward Islands while glancing Puerto Rico, where at least 187,000 people lost electricity and another 60,000 people were without water

An active rainy season triggered widespread flooding and landslides in Nicaragua, leading to the deaths of at least 37 people and affecting 43,000 homes. Also, over 25,000 wildfires blazed across parts of Bolivia during the month which was ignited by residents who burned large tracks of land to increase areas of cultivation. The fires charred more than 1.5 million hectares (3.7 million acres) of land and forcing the closure of 28 of the nation's 39 airports due to reduced visibility.

In Europe, wildfires and peat bog fires continued to burn across parts of Russia during the first half of the month as the death toll reached 52. The fires damaged at least 3,000 homes, buildings and vehicles as economists noted that total economic losses could reach RUB448 billion (USD15 billion). Also, widespread flooding affected parts of Central Europe when at least 15 people were killed in the Czech Republic, Poland, Germany and Lithuania after consecutive days of heavy rainfall and strong thunderstorms occurred.

In Asia, monsoonal rains continued to fall in Pakistan which led to additional flash flooding and landslides. At least 1,677 people were killed as an additional 2,605 were injured. In what was described as the worst flooding in Pakistan's history, at least 1.25 million homes were damaged or destroyed and over 6.9 million hectares (17 million acres) of croplands were submerged. Preliminary economic loss and reconstruction costs were suggested that the total could approach PKR1.73 trillion (USD20 billion). Monsoonal rains also destroyed at least 3,000 homes in Indonesia, 10,000 homes in Indian-held Kashmir and triggered a large mudslide in northern India killing 18 children.

In China, heavy rains across several sections of the country led to fresh rounds of flash flooding and landslides. Floods during the month in Gansu, Sichuan, Shaanxi and Yunnan provinces left at least 829 people dead along with damage to nearly 800,000 homes and over four million hectares (9.8 million acres) of cropland. Total combined economic losses were estimated at CNY108 billion (USD16.02 billion). The torrential rains also led to a series of massive landslides in northwest China's Gansu Province that left at least 1,467 people dead, 2,000 injured and another 298 missing.

Tropical Storm Dianmu crossed the Philippines before making a final landfall in South Korea destroying at least 3,000 homes and more than 159,000 hectares (393,000 acres) of farmland while Tropical Storm Mindulle hit Vietnam, killing at least 10 people and injuring 64 more.

United States

| Event Date | Event Name Or Type ¹ | Event Location | # of Deaths ² | # of Structures/ Claims ^{2,3} | Damage Estimates ^{2,4} (USD) |
|------------|---------------------------------|------------------------------|--------------------------|--|---------------------------------------|
| 8/8-8/12 | Severe Weather | Midwest, Mid-Atlantic States | 1+ | Thousands+ | Millions+ |
| 8/18 | Flooding | Tennessee, Kentucky | 0 | 500+ | 3+ million |

Consecutive days of heavy rain and strong thunderstorms affected much of the Midwest, Ohio Valley and the Mid-Atlantic States between the 8th and the 12th along a stationary frontal boundary. Iowa was the hardest hit area, particularly in the towns of Ames, Colfax and near Des Moines. The rains caused several rivers and creeks to overflow their banks hundreds of homes sustaining up to four feet (1.2 meters) of flood damage. At Iowa State University in Ames, several feet (meters) of water covered the basketball arena as floods also threatened the football stadium. In addition, high water forced the closure of Interstate 35 just south of Ames as well as U.S. Highway 30. Elsewhere, severe weather and damage was reported in Maryland, North Dakota, Wisconsin, Kansas, Missouri, Illinois and Minnesota.

The combination of a weak frontal boundary and the remnants of Tropical Depression Five brought torrential rains and flooding to Middle Tennessee and southeastern Kentucky on the 18th. The hardest hit area came in Putnam County, Tennessee (northeast of the city of Nashville) as roads and train tracks were washed away (leading to a freight train derailment), bridges sustained damage and many homes floated off of their foundations. Damage assessments listed at least 500 homes and roads were affected and preliminary damages in Overton County, TN were estimated at USD3 million.

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) |
|------------|---------------------------------|------------------------------|--------------------------|--|---------------------------------------|
| 8/21-8/24 | HU Frank | Mexico | 4+ | 30,000+ | Unknown |
| 8/29-8/31 | HU Earl | Leeward Islands, Puerto Rico | 0 | Hundreds+ | Unknown |

Hurricane Frank developed off the southern Mexico coastline and brought heavy rains and gusty winds between the 21st and 24th. At least four people were killed in Oaxaca state, primarily due to accidents involving mudslides. The torrential rains caused several rivers to overflow their banks (including the Valle Nacional and the Atoyac) and flood thousands of homes. According to Mexican government officials, at least 30,000 people (primarily in the states of Oaxaca and Tabasco) suffered effects from Frank.

Hurricane Earl developed in the Atlantic Ocean before skirting the northern Leeward Islands and Puerto Rico between the 29th and the 31st. According to media reports, Earl affected the Caribbean islands of Anguilla, Antigua, St. Maarten and the British Virgin Islands as roofs were blown off and electricity was cut. In Puerto Rico, the cyclone left over 187,000 people without electricity and another 60,000 without water as clean-up crews rushed to clear debris that had scattered major roadways.

South America

| Event Date | Event Name Or Type ¹ | Event Location | # of Deaths ² | # of Structures/ Claims ^{2,3} | Damage Estimates ^{2,4} (USD) |
|------------|---------------------------------|----------------|--------------------------|--|---------------------------------------|
| 5/15-8/31 | Nicaragua | Flooding | 37+ | 4,300+ | Millions+ |
| 8/5-8/31 | Wildfires | Bolivia | 0 | 60+ | Unknown |
| 8/28-8/29 | Landslides | Honduras | 5+ | 300+ | Unknown |

An active rainy season between May 15th and the end of August triggered widespread flooding and landslides in Nicaragua, leading to the deaths of at least 37 people. According to government officials, at least 4,300 homes were damaged or destroyed in the departments of Masaya, Granada, Jinotega, Nueva Segovia and Boaco. Much of the damage occurred due to landslides and rivers overflowing their banks. Additional damage occurred to the agricultural sector (particularly coffee, beans, sorghum, peanut and banana crops) and the transportation infrastructure after over 8,000 kilometers (4,970 miles) of roads and highways along the Pacific coastline sustained effects.

Thousands of wildfires blazed across parts of Bolivia between the 5th and the 31st, as firefighters struggled to extinguish the flames. According to Bolivian government officials, the fires were ignited by indigenous residents and small farmers who traditionally burn large tracks of land to increase areas of cultivation. However, the fires quickly spread out of control due to dry conditions and high winds which carried smoldering embers and subsequently ignited additional blazes. At least 25,000 separate wildfires were reported – primarily in Bolivia’s Amazon and eastern regions. The Ministry of Environment and Water noted that the fires had charred over 1.5 million hectares (3.7 million acres) of land and destroyed more than 60 homes. The departments of Santa Cruz, Pando, Beni, Cochabamba and La Paz were the most heavily affected with heavy smoke forcing the closure of 28 of the nation’s 39 airports.

Torrential rains on the 28th and 29th led to a series of large landslides and river flooding in Honduras, killing at least five people. All of the fatalities occurred in the Tegucigalpa region after a large mudslide collapsed on top of a home when parents and children were sleeping. At least 15 other homes sustained damage in the mudslide. Additional flood damage was reported to nearly 300 homes in the La Fuente and 21 de Febrero sections after a nearby creek overflowed its banks. Areas along the Ulua and Chamelecon rivers also reported flood damage.

Europe

| Event Date | Event Name Or Type ¹ | Event Location | # of Deaths ² | # of Structures/ Claims ^{2,3} | Damage Estimates ^{2,4} (USD) |
|------------|---------------------------------|-----------------|--------------------------|--|---------------------------------------|
| 7/1-8/18 | Wildfires | Russia | 52+ | 3,000+ | 15+ billion |
| 8/4 | Severe Weather | Finland | 0 | Hundreds+ | 25+ million |
| 8/6-8/8 | Flooding | Central Europe | 15+ | 25,000+ | 529+ million |
| 8/8 | Severe Weather | Finland | 1+ | Dozens+ | Unknown |
| 8/15-8/17 | Flooding | Spain, Slovakia | 5+ | 500+ | 14.2+ million |
| 8/26-8/27 | Flooding | Turkey | 12+ | 100+ | Unknown |

Wildfires and peat bog fires burned across parts of Russia throughout all of July and well into the month of August. At least 52 people were killed, as the fires were blamed on the destruction of at least 3,000 homes, buildings and vehicles. The blazes also destroyed a military base, including over 200 separate naval aircraft. Damages from this site alone were estimated at over RUB20 billion (USD670 million). In downtown Moscow, clouds of heavy smog and smoke obscured landmarks and also penetrated the subway system. A persistent heat wave kept record temperatures in the upper 30s C (90s F) for nearly two straight months. Total economic losses from the event were estimated by Russian economists to possibly reach RUB448 billion (USD15 billion).

A severe weather event broke out across parts of Finland on the 4th, with the hardest hit locations being Kainuu, North Karelia, South Savo, North Savo, Central Finland and East Häme. At least 30,000 power outages were reported along with additional roof damage. Telecommunications were also disrupted, as 50 to 60 mobile phone tower base stations were knocked offline. Train service was briefly cancelled between Kuopio and Pieksämäki. Total economic losses were estimated at nearly EUR19 million (USD25 million) as insured loss estimates were listed at EUR10 million (USD13 million).

Widespread flooding affected parts of Central Europe between the 6th and the 8th, leaving at least 15 people dead after heavy rainfall and strong thunderstorms caused several rivers to overflow their banks and dykes to be breached. The hardest hit areas came in the Czech Republic (five dead), Poland (three dead), Germany (three dead) and Lithuania (four dead). Eastern Slovakia was also affected but did not report any fatalities or major damage. Extensive damage to homes, buildings and vehicles was reported throughout all of these areas, and all of the fatalities came either due to drowning or fallen trees. Economic loss estimates in the Czech Republic were listed at CZK5 billion (USD266 million) and at least EUR200 million (USD263 million) in Germany. At least 18,000 claims were filed in the Czech Republic and expected payouts were over CZK1 billion (USD53 million).

Intense thunderstorms struck Finland on the 8th. The storms hit the south coast which disrupted rail traffic, flights at Helsinki-Vantaa Airport and knocked out electricity to 70,000 customers in the Häme and Pirkanmaa regions. At least one person was killed and 40 others were injured at a concert festival in Pori after a strong downburst caused equipment and stage structures to become flying debris.

Heavy rains between the 15th and the 17th left at least five people dead in Spain and Slovakia. In Slovakia, the hardest hit areas came in Handlova and Prievidza as the rains caused rivers to overflow their banks and damage homes, roads and bridges. Economic loss estimates were EUR11 million (USD14.2 million). In Spain, floods reportedly damaged in excess of 200 homes and vehicles in the province of Cordoba after 120 millimeters (4.72 inches) of rain fell.

Heavy rains on the 26th and 27th led to flash flooding and landslides in northeastern Turkey. At least 12 people were killed and seven more were injured in the town of Gundogdu in the province of Rize as a massive landslide struck. According to local media outlets, at least 100 homes were destroyed and even more cars were buried. Several roads, including a major Black Sea coastal highway, were also forced to shut down and telecommunications were cut following a series of other landslides.

Africa

| Event Date | Event Name Or Type ¹ | Event Location | # of Deaths ² | # of Structures/Claims ^{2,3} | Damage Estimates ^{2,4} (USD) |
|------------|---------------------------------|----------------|--------------------------|---------------------------------------|---------------------------------------|
| 7/27-8/4 | Flooding | Congo | 0 | 1,500+ | Unknown |

Heavy rains affected Equateur Province in Congo between July 27th and August 4th. At least 1,500 weak structured homes, schools and other buildings were destroyed as floods inundated the Basunkusu area. Wide swaths of agricultural fields were also submerged.

Asia

| Event Date | Event Name Or Type ¹ | Event Location | # of Deaths ² | # of Structures/Claims ^{2,3} | Damage Estimates ^{2,4} (USD) |
|------------|---------------------------------|---------------------------------|--------------------------|---------------------------------------|---------------------------------------|
| 7/1-8/10 | Flooding | China | 829+ | 750,000+ | 15+ billion |
| 7/21-8/10 | Flooding | Pakistan | 1,677+ | 1.25+ million | 20+ billion |
| 8/3-8/4 | Flooding | Indonesia | 0 | 3,000+ | Unknown |
| 8/5-8/8 | Flooding | India-Kashmir | 205+ | 10,000+ | Unknown |
| 8/6 | Volcano | Indonesia | 4+ | 100+ | Unknown |
| 8/8-8/9 | Landslides | China | 1,467+ | 4,000+ | 50+ million |
| 8/8-8/11 | TS Dianmu | Philippines, China, South Korea | 6+ | 3,130+ | Unknown |
| 8/11-8/24 | Flooding | China | 84+ | 168,600+ | 1.52+ billion |
| 8/18 | Landslides | India | 18+ | Dozens+ | Unknown |
| 8/24 | TS Mindulle | Vietnam | 10+ | 47,000+ | 44+ million |
| 8/27 | Earthquake | Iran | 3+ | 2,000+ | Unknown |
| 8/29 | Earthquake | China | 0 | 7,354+ | Unknown |

Fresh rounds of heavy rains returned to several sections of China between July 1st and August 10th. The rains left at least 829 people dead in nearly every section of the country as points along the Yangtze River overflowed and other flash floods raged and triggered landslides. According to the Ministry of Civil Affairs, the floods caused catastrophic damage as at least 750,000 homes were damaged or destroyed in over a dozen separate provinces during the prolonged event. Over four million hectares (9.8 million acres) of farmland were also affected. Total economic losses were estimated at CNY101 billion (USD15 billion).

Monsoonal rains in Pakistan led to flash flooding and landslides between July 21st and the August 10th, killing at least 1,677 people and injured 2,605 more. In what was described as the worst flooding in Pakistan's history, heavy rains pummeled Khyber-Pakhtunkhwa, Punjab and Baluchistan provinces – which caused the Swat River to burst its banks. Nearly 15 million people were driven from their homes by the flooding, as upwards of 1.25 million homes had been affected over a 160,000 square kilometer (62,000-square mile) area. Substantial damage also occurred to the transportation and agricultural infrastructures – with over 6.9 million hectares (17 million acres) of crop lands destroyed. Preliminary economic loss and reconstruction costs were estimated at PKR1.73 trillion (USD20 billion).

Torrential rains on the 3rd and 4th destroyed at least 3,000 homes in Gorontalo Province in Indonesia. Regional officials noted that floodwaters up to 1.5 meters (five feet) were found throughout the province as thousands of hectares (acres) of crops (primarily paddy fields) were also submerged.

Monsoonal rains spawned flash floods in Indian-held Kashmir that led to the deaths of at least 205 people between the 5th and the 8th. The floods destroyed at least 10,000 homes, buildings and structures (including three military bases) in villages surrounding the main city of Ladakh. The airport in Leh was heavily damaged, as was other parts of the transportation and agricultural infrastructures. Most lines of communications were also lost.

A surprise eruption on Mount Karangetang in eastern Indonesia left at least four people dead the 6th. Reports indicated that ash and lava flowed down the mountain's western slope and had completely destroyed seven homes. Nearly 100 total homes, churches, bridges and other structures in villages surrounding the volcano were damaged by the falling debris.

A series of massive landslides on the 8th and 9th in northwest China's Gansu Province left at least 1,467 people dead, 2,000 injured and another 298 missing. Persistent heavy rains were blamed as triggering the landslides in Zhouqu County that destroyed at least 4,000 homes. Officials noted that the side of a mountain broke off and covered the region with rock and mud nearly four stories high.

Tropical Storm Dianmu developed on the 8th and crossed the Philippines before making a final landfall in South Korea on the 11th. At least six people were killed. After skirting the Philippines, Dianmu headed northward across the East China Sea and affected coastal sections of China – destroying at least 3,000 homes and more than 159,000 hectares (393,000 acres) of farmland. On the 11th, Dianmu made its only landfall along South Korea's southern coastline as the region saw flooding and sustained winds of 86 kph (54 mph) which caused widespread property and other infrastructure damage.

Torrential rains fell across parts of Gansu, Sichuan, Shaanxi and Yunnan provinces in China between the 11th and the 24th. At least a combined 84 people were killed and 302 were injured as the rains triggered both flash flooding and landslides. According to government officials, at least 28,600 homes were damaged, 55,000 hectares (136,000 acres) of crops were affected and at least CNY6.89 billion (USD1.02 billion) in economic losses had occurred in Sichuan Province. In Gansu Province, floods damaged or destroyed at least 140,000 homes, over 60,000 hectares (148,000 acres) of grain crops and had caused economic losses of at least CNY3.4 billion (USD500 million). On the 18th, mudslides struck Puladi Township in Yunnan Province and at least 12 people were killed as roads, bridges, power supplies and telecommunications were affected.

Heavy rains triggered a large mudslide in northern India on the 18th. At least 18 children were killed after the slide destroyed a school building in the village of Sumgarh in Uttarakhand state.

Tropical Storm Mindulle developed and made landfall in Vietnam on the 24th, killing at least 10 people and injuring 64 more. According to Vietnam's Central Committee for Flood and Storm Control, Mindulle came ashore near the city of Vinh and brought high winds and torrential rain which triggered flash flooding and landslides in mountainous areas. Widespread damage was reported to homes, schools, hospitals, fishing vessels and crops as government reports indicated that at least 47,000 homes were destroyed and that 64,000 hectares (158,000 acres) of rice crops had been submerged. The majority of the damage and fatalities occurred in Thanh Hoa, Quang Tri and Nghe An provinces. Economic losses were estimated at VND850 billion (USD44 million).

A magnitude-5.7 earthquake struck northern Iran on the 27th, killing at least three people and injuring over 40 others. The tremor struck at 10:53 PM local time (19:23 UTC) with an epicenter 105 kilometers (65 miles) east of Semnan, Iran. According to Iranian state run media, at least 2,000 homes reportedly sustained damage up to '30 to 80 percent' in Semnan Province. The earthquake was also felt in the city of Tehran and parts of Mazandaran Province. At least 58 aftershocks were recorded.

A magnitude-5.0 earthquake struck southwest China on the 29th, leaving at least 14 people injured. The tremor struck at 8:53 AM local time (00:53 UTC) with an epicenter 145 kilometers (90 miles) east-northeast of Panzhihua, China. The jolt was felt right along the Yunnan/Sichuan province border. Most of the damage occurred in Qiaojia County in Yunnan Province, where at least 7,354 homes were destroyed.

Oceania (Australia, New Guinea, New Zealand, Micronesia, Guam, Northern Mariana Islands)

| Event Date | Event Name Or Type ¹ | Event Location | # of Deaths ² | # of Structures/Claims ^{2,3} | Damage Estimates ^{2,4} (USD) |
|------------|---------------------------------|----------------|--------------------------|---------------------------------------|---------------------------------------|
| 8/10-8/12 | Severe Weather | Victoria | 0 | 434+ | Unknown |

In Australia, an area of low pressure intensified while exiting New South Wales and entering Victoria between the 10th and the 12th. Severe thunderstorms brought winds gusting to 139 kph (85 mph), rainfall totals ranging between 30 and 120 millimeters (1.2 and 4.7 inches) and even an isolated tornado which struck the town of Moama on the Victoria/NSW border. Flood damage was reported in a Port Fairy caravan park after the Moyne River overflowed its banks, while additional floods occurred in Colac and Camperdown. According to the Victoria State Emergency Service, at least 434 calls for assistance were received. The SES reported that the hardest hit areas were Warrnambool, Port Fairy, Camperdown, Cobden, Ballarat, Ararat and Bendigo.

APPENDIX

Updated Jan. 2010 – June 2010 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) |
|------------|---------------------------------|---|--------------------------|---------------------------------------|---------------------------------------|
| 1/2-1/13 | Winter Weather | Southeast, Plains, Midwest, Northeast | 25+ | 25,000+ | 1.38+ billion |
| 1/9 | Earthquake | Northern California | 0 | 463+ | 43+ million |
| 1/17-1/22 | Severe Weather | California, Arizona, Pacific Northwest | 10+ | 50,000+ | 150+ million |
| 1/20-1/24 | Severe Weather | Southeast, Tennessee Valley | 1+ | 500+ | Unknown |
| 1/27-1/30 | Winter Weather | Plains, Southeast, Mid-Atlantic | 13+ | 1,000+ | Millions+ |
| 2/4-2/6 | Winter Weather | Mid-Atlantic, Northeast | 15+ | 35,000+ | 300+ million |
| 2/6 | Flooding | California | 0 | 43+ | 31+ million |
| 2/9-2/11 | Winter Weather | Midwest, Mid-Atlantic, Northeast | 6+ | 150,000+ | 1.5+ billion |
| 2/10 | Earthquake | Illinois | 0 | Unknown | Unknown |
| 2/10-2/11 | Winter Weather | Southeast | 0 | Unknown | Unknown |
| 2/23-2/28 | Winter Weather | Northeast, Mid-Atlantic, Midwest | 10+ | 93,000+ | 500+ million |
| 3/8 | Severe Weather | Plains | 0 | Dozens+ | Unknown |
| 3/10-3/12 | Severe Weather | Plains, Southeast | 1+ | Hundreds+ | Unknown |
| 3/13-3/15 | Flooding | Northeast, Mid-Atlantic States | 11+ | 175,000+ | 1.5+ billion |
| 3/13-3/22 | Flooding | Northern Plains | 0 | Unknown | Unknown |
| 3/28-3/29 | Severe Weather | Southeast | 0 | 2,368+ | 4.4+ million |
| 3/28-3/30 | Flooding | Northeast | 0 | 45,000+ | 350+ million |
| 4/4 | Earthquake | California | 0 | Unknown | 91+ million |
| 4/4-4/7 | Severe Weather | Plains, Midwest, Northeast | 0 | 60,000+ | 450+ million |
| 4/22-4/25 | Severe Weather | Mississippi Valley, Southeast | 12+ | 32,000+ | 500+ million |
| 4/20-7/31 | Oil Spill | Gulf of Mexico | 0 | Unknown | Billions+ |
| 4/30-5/3 | Severe Weather | Mississippi Valley, Tennessee Valley, Southeast | 32+ | 75,000+ | 3+ billion |
| 5/7-5/8 | Severe Weather | Ohio Valley, Northeast | 0 | 17,500+ | 200+ million |
| 5/10 | Severe Weather | Oklahoma, Kansas | 5+ | 72,500+ | 1+ billion |
| 5/12-5/16 | Severe Weather | Plains, Midwest, Northeast, Tennessee Valley | 0 | 225,000+ | 2.5+ billion |

| Event Date | Event Name Or Type ¹ | Event Location | # of Deaths ² | # of Structures/Claims ^{2,3} | Damage Estimates ^{2,4} (USD) |
|------------|---------------------------------|---|--------------------------|---------------------------------------|---------------------------------------|
| 5/22-5/26 | Severe Weather | Plains, Midwest, Northeast | 0 | 65,000+ | 750+ million |
| 6/1-6/3 | Severe Weather | Northern Plains | 0 | 25,000+ | 250+ million |
| 6/4-6/6 | Severe Weather | Midwest, Ohio Valley, Northeast | 7+ | 20,000+ | 250+ million |
| 6/6-6/9 | Flooding | Utah | 0 | 50+ | 1+ million |
| 6/8-6/9 | Flooding | Texas | 1+ | 100+ | Unknown |
| 6/10-6/16 | Severe Weather | Plains, Midwest, Southeast | 0 | 90,000+ | 500+ million |
| 6/10-6/11 | Flooding | Arkansas | 20+ | Unknown | Unknown |
| 6/13-6/14 | Flooding | Oklahoma | 1+ | Thousands+ | Millions+ |
| 6/14 | Earthquake | Southern California | 0 | 50+ | Unknown |
| 6/17-6/20 | Severe Weather | Midwest | 5+ | 65,000+ | 500+ million |
| 6/21-6/24 | Severe Weather | Midwest, Plains, Northeast | 0 | 55,000+ | 500+ million |
| 6/25-6/28 | Severe Weather | Midwest, Plains, Northeast | 1+ | 40,000+ | 225+ million |
| 6/30-7/1 | Severe Weather | Montana | 0 | 20,000+ | 175+ million |
| 7/1-7/10 | Flooding | Texas | 0 | 2,000+ | 40+ million |
| 7/4-7/7 | Heat Wave | Northeast, Midwest, Southeast | 10+ | Unknown | Unknown |
| 7/7 | Earthquake | Southern California | 0 | Dozens+ | Unknown |
| 7/10 | Flooding | Massachusetts | 0 | 1,000+ | 10+ million |
| 7/10-7/16 | Severe Weather | Plains, Midwest, Southeast, New England | 0 | Hundreds+ | Millions+ |
| 7/17-7/18 | Severe Weather | Plains, Midwest, Southeast, New England | 2+ | 25,000+ | 250+ million |
| 7/20-7/25 | Severe Weather | Plains, Midwest, Southeast, New England | 7+ | 105,000+ | 750+ million |
| 7/26 | Severe Weather | Montana | 2+ | Dozens+ | Unknown |
| 7/26-7/31 | Wildfires | Southern California | 0 | 87+ | 23.4+ million |

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) |
|------------|---------------------------------|----------------|--------------------------|---------------------------------------|---------------------------------------|
| 1/2 | Winter Weather | Canada | 3+ | Unknown | Unknown |
| 1/12 | Earthquake | Haiti | 220,000+ | 350,000+ | 8+ billion |
| 1/18-1/22 | Flooding | Mexico | 3+ | 800+ | 5+ million |
| 2/4-2/10 | Flooding | Mexico | 43+ | 6,500+ | 15+ million |
| 2/5 | Winter Weather | Canada | 0 | Dozens+ | 80,000+ |
| 2/25-2/26 | Winter Weather | Canada | 0 | Unknown | Unknown |
| 3/29 | Severe Weather | Bahamas | 3+ | Dozens+ | Unknown |

| Event Date | Event Name Or Type ¹ | Event Location | # of Deaths ² | # of Structures/Claims ^{2,3} | Damage Estimates ^{2,4} (USD) |
|------------|---------------------------------|----------------------------------|--------------------------|---------------------------------------|---------------------------------------|
| 4/4 | Earthquake | Baja California | 2+ | 5,000+ | 1+ billion |
| 5/16 | Earthquake | Puerto Rico | 0 | Dozens+ | Unknown |
| 5/26-5/31 | Volcano | Guatemala | 3+ | Unknown | Unknown |
| 5/28-5/31 | Volcano | Ecuador | 0 | Unknown | Unknown |
| 5/29-5/30 | TS Agatha | Guatemala, Honduras, El Salvador | 205+ | 110,000+ | 1+ billion |
| 6/6 | Severe Weather | Canada | 0 | Thousands+ | 118+ million |
| 6/17 | Severe Weather | Canada | 0 | 500+ | 64+ million |
| 6/23 | Severe Weather | Canada | 0 | 400+ | 25+ million |
| 6/23 | Earthquake | Canada | 0 | Hundreds+ | 16.3+ million |
| 6/26-6/30 | HU Alex | Mexico, Belize | 51+ | 50,000+ | 1.3+ billion |
| 6/30 | Earthquake | Mexico | 1+ | 100+ | Unknown |
| 7/1-7/10 | Flooding | Mexico | 5+ | 100,000+ | 100+ million |
| 7/12-7/13 | Severe Weather | Canada | 0 | 60,000+ | 472+ 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) |
|------------|---------------------------------|--|--------------------------|---------------------------------------|---------------------------------------|
| 1/1-1/7 | Flooding | Brazil | 201+ | 10,000+ | 145+ million |
| 1/21-1/27 | Flooding | Peru, Bolivia | 30+ | 35,312+ | 300+ million |
| 2/5-2/8 | Flooding | Bolivia | 15+ | 36,163+ | 138,000+ |
| 2/8-2/9 | Flooding | Uruguay | 0 | Unknown | Unknown |
| 2/11 | Flooding | Peru | 0 | 20,150+ | Unknown |
| 2/17 | Flooding | Argentina | 0 | Hundreds+ | Unknown |
| 2/27 | Earthquake | Chile | 500+ | 1.5+ million | 30+ billion |
| 3/1-3/5 | Flooding | Bolivia | 16+ | 46,200+ | 2.5+ million |
| 4/1-4/2 | Flooding | Peru | 28+ | 120+ | Unknown |
| 4/5-4/7 | Flooding | Brazil | 256+ | 25,000+ | 13.1+ billion |
| 4/19-4/20 | Severe Weather | Nicaragua, Ecuador | 1+ | 411+ | Unknown |
| 6/17-6/21 | Flooding | Brazil | 72+ | 50,000+ | 860+ million |
| 7/17-7/24 | Winter Weather | Peru, Argentina, Brazil, Bolivia, Paraguay, Uruguay, Chile | 522+ | Unknown | Unknown |
| 7/26 | Flooding | Colombia | 60+ | 75,000+ | 38.4+ million |

Europe

| 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 | UK, Central Europe, Northern Europe | 276+ | 1,100+ | 4.63+ billion |
| 1/1-1/15 | Flooding | Albania, Bosnia, Croatia | 0 | 2,489+ | 8+ million |
| 2/1-2/2 | Flooding | Canary Islands | 1+ | Hundreds+ | Unknown |
| 2/1-2/12 | Winter Weather | Austria | 15+ | Unknown | Unknown |
| 2/13-2/17 | Flooding | Southern Europe | 4+ | Hundreds+ | 9.6+ million |
| 2/20 | Flooding | Madeira | 43+ | 560+ | 1.89+ billion |
| 2/23-2/24 | Flooding | Spain | 2+ | 400+ | Unknown |
| 2/27-2/28 | Windstorm Xynthia | France, Portugal, Spain, Belgium, Germany | 62+ | 100,000+ | 4.5+ billion |
| 3/30-3/31 | Winter Weather | United Kingdom | 1+ | Unknown | Unknown |
| 4/15-4/26 | Volcano | Central and Northern Europe | 0 | Unknown | 2.8+ billion |
| 5/12-5/28 | Flooding | Central Europe | 34+ | 102,000+ | 4.4+ billion |
| 5/24 | Severe Weather | Germany | 1+ | Dozens+ | Unknown |
| 6/2-6/10 | Flooding | Central Europe | 4+ | 50,000+ | 2.05+ billion |
| 6/5-6/9 | Flooding | France, Spain | 27+ | 45,000+ | 1+ billion |
| 6/19-6/21 | Flooding | Bosnia | 0 | 4,000+ | 1.5+ million |
| 6/22-6/30 | Flooding | Romania, Ukraine | 22+ | 3,200+ | Millions+ |
| 6/15-8/15 | Heat Wave | Northern, Central, Eastern Europe | 15,000+ | Unknown | 970+ million |
| 7/1-8/18 | Wildfires | Russia | 52+ | 3,000+ | 15+ billion |
| 7/29-7/30 | Severe Weather | Finland | 0 | Hundreds+ | 99+ million |

Africa

| Event Date | Event Name Or Type ¹ | Event Location | # of Deaths ² | # of Structures/ Claims ^{2,3} | Damage Estimates ^{2,4} (USD) |
|------------|---------------------------------|-------------------------------------|--------------------------|--|---------------------------------------|
| 1/1-1/15 | Flooding | Kenya | 35+ | 30,000+ | 57+ million |
| 1/17-1/18 | Flooding | Egypt | 15+ | 1,856+ | 36.2+ million |
| 2/16 | Flooding | South Africa | 4+ | Hundreds+ | 5.3+ million |
| 2/22 | Flooding | Zambia | 9+ | 1,000+ | Unknown |
| 3/2 | Flooding | Uganda | 86+ | Hundreds+ | 1+ million |
| 3/6-3/12 | Flooding | Kenya, Mozambique, Uganda, Zimbabwe | 20+ | 10,000+ | Unknown |
| 3/10 | TS Hubert | Madagascar | 83+ | 7,000+ | Unknown |
| 5/7 | Winter Weather | South Africa | 6+ | 10+ | Unknown |
| 6/20 | Flooding | Ghana | 35+ | 17,458+ | Unknown |
| 7/16-7/27 | Flooding | Sudan | 18+ | 2,133+ | Unknown |

Asia

| Event Date | Event Name Or Type ¹ | Event Location | # of Deaths ² | # of Structures/Claims ^{2,3} | Damage Estimates ^{2,4} (USD) |
|------------|---------------------------------|---------------------------|--------------------------|---------------------------------------|---------------------------------------|
| 1/1-5/1 | Drought | China | 0 | Unknown | 3.5+ billion |
| 1/2 | Earthquake | Tajikistan | 0 | 1,098+ | 1.5+ million |
| 1/2-1/12 | Winter Weather | China, South Korea, India | 43+ | 100,000+ | 29+ million |
| 1/3-1/9 | Earthquake | Solomon Islands | 0 | 1,857+ | Unknown |
| 1/4 | Landslide | Pakistan | 19+ | 332+ | 50,000+ |
| 1/9 | Flooding | Indonesia | 3+ | 5,713+ | Unknown |
| 1/17-1/18 | Flooding | Israel, Jordan | 2+ | 163+ | Millions+ |
| 1/17-1/23 | Winter Weather | China | 21+ | 38,000+ | 96+ million |
| 1/21 | Flooding | Indonesia | 8+ | 2,000+ | Unknown |
| 1/31 | Earthquake | China | 1+ | 4,910+ | 4.4+ million |
| 2/5 | Winter Weather | Iran | 8+ | 10+ | Unknown |
| 2/8-2/11 | Winter Weather | India | 21+ | Unknown | Unknown |
| 2/9 | Winter Weather | Afghanistan | 204+ | 3,800+ | Unknown |
| 2/13-2/19 | Flooding | Indonesia | 0 | 2,469+ | 215+ million |
| 2/18 | Winter Weather | Pakistan | 116+ | 652+ | Unknown |
| 2/25 | Winter Weather | China | 7+ | Unknown | Unknown |
| 2/25 | Earthquake | China | 0 | 3,172+ | 882,000+ |
| 2/28-3/1 | Winter Weather | China | 0 | 5,883+ | 274+ million |
| 3/4 | Earthquake | Taiwan | 0 | 1,000+ | 10.3+ million |
| 3/8 | Earthquake | Turkey | 41+ | Hundreds+ | Unknown |
| 3/11-3/13 | Flooding | Kazakhstan | 41+ | 2,000+ | 127,000+ |
| 3/27-3/28 | Winter Weather | China | 0 | 12,649+ | 530,000+ |
| 3/28-3/31 | Severe Weather | India | 7+ | 16,000+ | Unknown |
| 4/6 | Earthquake | Indonesia | 0 | 1,005+ | Unknown |
| 4/13 | Severe Weather | India, Bangladesh | 137+ | 300,000+ | 30+ million |
| 4/14 | Earthquake | China | 2,698+ | 61,000+ | 4.7+ billion |
| 4/14-4/19 | Heatwave | India | 107+ | Unknown | Unknown |
| 4/17-4/26 | Flooding | China | 1+ | 4,600+ | 65+ million |
| 4/18-4/19 | Severe Weather | India | 1+ | 980+ | Unknown |
| 4/19 | Earthquake | Afghanistan | 11+ | 300+ | Unknown |
| 4/19-4/22 | Flooding | China | 2+ | 1,275+ | 10+ million |
| 4/21 | Severe Weather | India | 4+ | 2,000+ | Unknown |
| 4/24-4/26 | Sandstorm | China | 7+ | 21,369+ | 117+ million |
| 3/15-5/3 | Flooding | China | 0 | 8,321+ | Unknown |
| 5/1-5/2 | Severe Weather | Bangladesh | 23+ | 1,000+ | Unknown |
| 5/5-5/10 | Flooding | Tajikistan | 40+ | 4,500+ | 5.3+ million |
| 5/5-5/24 | Flooding | China | 115+ | 95,000+ | 2.23+ billion |
| 5/6 | Severe Weather | China | 36+ | 10,980+ | 17.7+ million |
| 5/7 | Severe Weather | India | 54+ | Hundreds+ | Unknown |

| Event Date | Event Name Or Type ¹ | Event Location | # of Deaths ² | # of Structures/ Claims ^{2,3} | Damage Estimates ^{2,4} (USD) |
|------------|---------------------------------|-----------------------------|--------------------------|--|---------------------------------------|
| 5/14-5/16 | Severe Weather | China | 7+ | 2,365+ | Unknown |
| 5/15-5/18 | Severe Weather | Sri Lanka | 20+ | 1,270+ | 100+ million |
| 5/16-5/20 | Severe Weather | India | 13+ | 1,000+ | Unknown |
| 5/20 | CY Laila | India | 36+ | 23,000+ | 106+ million |
| 5/30-6/3 | Flooding | China | 53+ | 11,000+ | 176+ million |
| 6/4-6/5 | CY Phet | Oman, Pakistan | 39+ | 20,000+ | 857+ million |
| 6/13-6/30 | Flooding | China | 381+ | 879,000+ | 12.3+ billion |
| 6/14-6/16 | Flooding | Myanmar, Bangladesh | 121+ | 20,000+ | Unknown |
| 6/16 | Earthquakes | Indonesia | 17+ | 3,922+ | Unknown |
| 6/16 | Flooding | Singapore | 0 | Dozens+ | 22+ million |
| 6/28 | Landslide | China | 99+ | 1,000+ | Unknown |
| 7/6-7/8 | Flooding | India | 53+ | 28,000+ | 428+ million |
| 7/10-7/16 | Flooding | Japan | 9+ | Hundreds+ | 3.5+ million |
| 7/13-7/17 | TY Conson | Philippines, China, Vietnam | 107+ | 48,737+ | 148+ million |
| 7/19-7/25 | Heat Wave | Japan | 57+ | Unknown | Unknown |
| 7/20 | Earthquake | Iran | 1+ | 500+ | Unknown |
| 7/22 | TY Chanthu | Philippines, China | 2+ | 2,915+ | 355+ million |
| 7/23-7/25 | Flooding | Indonesia | 21+ | 3,000+ | Unknown |
| 7/24 | Flooding | India | 6+ | Hundreds+ | Unknown |
| 7/28 | Flooding | Afghanistan | 65+ | 1,000+ | Unknown |
| 7/30-7/31 | Earthquake | Iran | 0 | 700+ | Unknown |

Oceania (Australia, New Guinea, New Zealand, Micronesia, Guam, Northern Mariana Islands)

| Event Date | Event Name Or Type ¹ | Event Location | # of Deaths ² | # of Structures/ Claims ^{2,3} | Damage Estimates ^{2,4} (USD) |
|------------|---------------------------------|-----------------------------|--------------------------|--|---------------------------------------|
| 1/1-1/15 | Flooding | New South Wales, Queensland | 2+ | Unknown | 3.2+ million |
| 1/22 | CY Magda | Western Australia | 0 | Unknown | Unknown |
| 1/24-1/30 | CY Olga | Queensland | 0 | Unknown | Unknown |
| 2/4-2/5 | CY Oli | French Polynesia | 1+ | 1,000+ | 70+ million |
| 2/5-2/7 | Flooding | New South Wales, Queensland | 5+ | 3,000+ | Unknown |
| 2/11 | CY Pat | Cook Islands | 0 | 504+ | 10+ million |
| 2/12-2/15 | Flooding | New South Wales | 2+ | 1,538+ | 16+ million |
| 2/14 | CY Rene | Tonga | 1+ | 263+ | Unknown |
| 3/1-3/3 | Flooding | Queensland | 0 | 7,500+ | 123+ million |
| 3/6 | Severe Weather | Victoria | 0 | 105,000+ | 1.25+ billion |
| 3/13-3/16 | TC Tomas | Fiji | 2+ | 4,000+ | 33+ million |
| 3/15-3/21 | TC Ului | Solomon Islands, Queensland | 0 | 812+ | 18+ million |
| 3/22 | Severe Weather | Western Australia | 0 | 165,000+ | 1.25+ billion |
| 4/20 | Earthquake | Western Australia | 0 | 100+ | 4.6+ million |

| Event Date | Event Name Or Type ¹ | Event Location | # of Deaths ² | # of Structures/ Claims ^{2,3} | Damage Estimates ^{2,4} (USD) |
|------------|---------------------------------|-----------------|--------------------------|--|---------------------------------------|
| 6/3-6/4 | Severe Weather | New South Wales | 0 | 392+ | 1.04+ million |

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

² As reported by public news media sources

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 and financial institution press releases. These estimates can include insured or economic losses.

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