



Global Catastrophe Recap

July 2017

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Executive Summary

- Seasonal rainfall leads to extensive flooding across Asia; July economic toll tops USD10 billion
- Powerful thunderstorms in Turkey lead to projected insurance bill of at least USD440 million
- Extreme heat and drought conditions lead to wildfires across the United States, Canada and Europe

Relentless seasonal flooding—which began in mid-June—continued to initiate considerable damage and fatalities across parts of Asia throughout the month of July. The greatest impacts were recorded in China, where rainfall associated with a quasi-stationary Mei-yu front led to prolonged flooding across central and eastern sections of the country. Nearly 200 people were left dead or missing and hundreds of thousands of homes were damaged or destroyed. The Ministry of Civil Affairs listed combined economic flood damage at more than USD10 billion during a six-week stretch; much of which occurred in the Yangtze River Basin.

Heavy flooding also occurred in Japan following the landfall of Tropical Storm Nanmadol and a lingering frontal boundary that spawned prolific rainfall. More than 2,600 homes and other structures were damaged or destroyed as extensive flooding and landslides affected Fukuoka, Oita, Shimane, Kumamoto, and Hiroshima prefectures. Total economic losses were expected to near USD1.0 billion.

Monsoon rains additionally left hundreds dead and major damage to structures, agriculture and infrastructure in parts of India, Bangladesh and Pakistan. Total economic damage was minimally listed in the hundreds of millions (USD). Additional seasonal rains in Thailand left at least 23 people dead and economic damage in excess of USD300 million.

Flash flooding in northern Switzerland prompted claims payouts of nearly USD90 million.

Separate instances of powerful thunderstorms left considerable damage in Turkey. The two events were marked by large hail and flooding throughout the greater Istanbul metro region. Turkish insurers anticipated combined claims payouts reaching USD440 million. Overall economic losses were higher.

Additional severe thunderstorms and subsequent flooding affected many sections of the United States. Damage and casualties resulting from large hail, straight-line winds, isolated tornadoes and flash floods were noted in the Midwest, Plains, Southeast, Mid-Atlantic and the Desert Southwest. Total combined economic and insured losses were expected to enter the hundreds of millions (USD).

Other major severe weather events in July were noted in Canada, China, and Europe.

Officials in Italy reported that prolonged drought conditions has cost the economy some EUR2.0 billion (USD2.3 billion) in economic losses. Production of vegetables, fruits, cereals, vines, and olives were all impacted by the abnormally dry conditions which prevailed across the country during the first half of 2017.

Extreme heat and drought conditions additionally led to wildfire damage across parts of the United States, Canada, Portugal, France, and the Balkans.

Tropical Storm Talas made landfall in Vietnam and caused USD44 million in economic damage.

Strong earthquakes were recorded in the Philippines, Greece, Turkey, and China.

A winter storm brought high winds and flooding to New Zealand; damage estimated in the millions (USD).

United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
07/01-07/31	Wildfire	West	0	Hundreds	Millions
07/09-07/12	Severe Weather	Plains, Midwest, Ohio Valley	1	Thousands	170+ million
07/12-07/24	Flooding	Illinois	0	2,100+	Millions
07/15	Flooding	Arizona	10	N/A	N/A
07/19-07/20	Severe Weather	Midwest	0	Hundreds	Millions
07/21-07/23	Severe Weather	Plains, Midwest, Mid-Atlantic	4	Thousands	100+ million
07/31	TS Emily	Florida	0	Hundreds	≤10 million

Excessive heat across much of the U.S. West prompted hundreds of wildfires to blaze across several states throughout much of July. Several people were injured. Some of the greatest impacts were noted in California, where fires destroyed dozens of homes and other structures across northern, central and southern sections of the state. At the peak of the fire outbreak more than 8,000 residents were under evacuation orders. A state of emergency for the fires was declared in California. Other damaging fires were noted in Montana, Utah, Oregon and Washington.

Portions of the Midwest and Ohio Valley in the United States were impacted by severe thunderstorms from July 9-12. At least one person was killed in Indiana while severe damage was reported across multiple states due to large hail and straight-line winds. The worst of the impacts were reported on July 11-12 as continued heavy rainfall led to flooding in multiple states. Total economic losses were estimated at nearly USD170 million. Public and private insurers listed payouts at upwards of USD125 million.

A state disaster was declared in Illinois as severe flooding impacted portions of Lake, McHenry, Kane, and Cook Counties from July 12-24. Adjacent portions of Wisconsin were also affected. The flooding occurred as severe thunderstorms dropped up to 8.0 inches (203 millimeters) of rain on July 12. River levels rose and crested from July 14-17: some of the worst impacts were noted along the courses of the Fox and Des Plaines Rivers which both reached record high levels. At least 2,100 homes and structures were damaged by floodwaters in Cook County alone. Total economic losses were well into the millions (USD).

Ten people were killed as a flash flood swept through the Tonto National Forest, approximately 100 miles (160 kilometers) northeast of Phoenix, Arizona, on July 15. A thunderstorm dropped 1.5 inches (38 millimeters) of rainfall in just one hour in an area upstream in the Cold Springs Canyon.

The combination of hot temperatures and ample moisture rounding the northern periphery of a ridge of high pressure allowed for powerful thunderstorms to impact the High Plains and Upper Midwest on July 19. The majority of the widespread damage resulted from damaging straight-line winds gusting up to 100 mph (160 kph) in multiple states. Large hail and isolated tornadoes additionally caused damage. Total economic and insured losses were expected to reach into the millions (USD).

A severe weather outbreak impacted multiple states across the central and eastern U.S. from July 21-23. The worst damage was noted as the result of periods of large hail, damaging winds and isolated tornadoes. Additionally, torrential rainfall spawned flash flooding in multiple locations. Some of the hardest-hit areas included parts of Kansas, Missouri, Illinois, Indiana and further eastward into Maryland and the Carolinas. At least four people were left dead or missing. Total economic and insured losses were expected to each exceed USD100 million.

Tropical Storm Emily quickly developed and made landfall with 45 mph (75 kph) winds just south of Tampa, Florida on July 31. The storm brought periods of heavy rainfall, coastal flooding and spawned isolated tornadoes. Damage was largely minor, with overall costs expected to be negligible.

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
07/01-08/01	Wildfire	Canada	0	Dozens	78+ million
07/23	Severe Weather	Canada	0	Hundreds	50+ million
07/27-07/29	Severe Weather	Canada	0	Thousands	Millions

Intense heat and gusty winds led to hundreds of wildfires and numerous reports of damage in Canada's British Columbia; where a state of emergency was declared. Officials reported that 240 wildfires were at one point active in July that prompted the evacuation of more than 14,000 residents. Among the worst affected areas was between the village of Cache Creek and the community of Ashcroft where five homes, 30 trailer park homes (Boston Flats), and two airport hangars were destroyed. The British Columbia government announced that it had allocated CAD100 million (USD78 million) to help areas re-build.

Severe thunderstorms impacted portions of Canada's Alberta province on July 23. Up to tennis ball-sized hail fell accompanied by strong winds and heavy rain. The first round of storms hit the communities of Red Deer, Innisfail, and Wetaskiwin while the second round impacted an area from Edmonton to Red Deer. Isolated storms were also reported around Calgary. Hail caused extensive damage to vehicles, houses, crops, and other property while high winds downed multiple trees and power poles, tore shingles from roofs, and toppled grain bins. Localized flooding was also reported around Red Deer.

An advancing cold front spawned a series of severe thunderstorms across parts of Canada's Alberta and Saskatchewan provinces from July 27-29. Some of the most notable damage resulted from large hail and damaging winds throughout the Edmonton metro region. Total economic and insured losses were expected well into the millions (USD).

South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
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There were no significant natural disaster events in South America during the month of July.

Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
05/01-07/31	Drought	Italy	N/A	N/A	2.3+ billion
07/08-07/08	Flooding	Switzerland	0	6,000+	120+ million
07/17-07/18	Wildfires	Balkans, Portugal, France, Italy	0	Hundreds	Millions
07/21	Earthquake	Greece, Turkey	2	Hundreds	Millions
07/21-07/27	Severe Weather	Central & Southern Europe	0	Thousands	10s of millions

Officials in Italy reported that prolonged drought conditions has cost the economy some EUR2.0 billion (USD2.3 billion) in economic losses. Production of vegetables, fruits, cereals, vines, and olives were all impacted by the abnormally dry conditions which prevailed across the country during the first half of 2017.

Torrential rainfall prompted flooding in Kanton Aargau, northern Switzerland on July 8. Among the worst affected was the town of Zofingen with multiple flooded streets, buildings and vehicles. Local insurance companies reported more than 6,000 claims worth at least CHF85 million (USD89 million) insured loss. Problems with drinking water supply were reported from municipalities Oberentfelden and Bottenwil.

Scores of major wildfires, many of which were sparked on July 17, burned in portions of Croatia, Montenegro, Italy, France, and Portugal following weeks of dry hot weather across much of southern Europe. Notable fires burned near Split, Croatia; in Lustica, Montenegro; in Corsica; near Nice, France; near Ostia, Italy; and in parts of Calabria region, Italy. More than 80 people were injured in Croatia while thousands of residents and tourists were evacuated across all of the affected countries. Several dozens of vehicles were destroyed along with multiple buildings.

At least two people were killed and hundreds were injured when a USGS-registered magnitude-6.6 earthquake struck 10 kilometers (six miles) south-southeast of Bodrum, Turkey on July 21. Shaking was felt across multiple islands in the Aegean Sea and throughout western Turkey. The worst affected area was the Greek island of Kos, where two people were killed and dozens of buildings incurred structural damage. According to a governmental survey, at least 174 buildings were rendered non-habitable or unusable. The earthquake generated a small tsunami that caused minor coastal flooding in the region. By August 3, the Turkey Insurance Association registered 800 claims worth TRY12 million (USD3.4 million).

Powerful thunderstorms inflicted damage in several central and southern European countries from July 21-27. Significant damage was reported from Switzerland, Austria, Germany, Poland, Slovakia, and Spain. At least one person was listed as missing while severe damage to homes, vehicles, and agriculture were reported.

Middle East

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
07/17-07/18	Flooding	Turkey	0	7,000+	200+ million
07/27	Severe Weather	Turkey	0	22,000+	650+ million

Torrential rainfall hit Istanbul, Turkey on July 17 and 18 prompting widespread flash flooding across the city. Rainfall totals were described by local media as the highest recorded in 32 years. Hundreds of vehicles, streets and metro stations were inundated and the Eurasia Tunnel was temporarily closed. Turkish media reported that insurers anticipated claims payouts reaching TRY350 million (USD100 million), largely due to numerous damaged cars, the majority of which were insured. Property damage and business interruption will likely drive economic losses even higher. By August 3, the Turkish Insurance Association reported 7,000 claims worth TRY116 million (USD33 million).

Severe thunderstorms affected the greater Istanbul metropolitan region, Turkey, on July 27 causing extensive damage. Most of the impacts were the result of large hail, strong winds and torrential rainfall across several districts of the city. Damage was also noted to multiple aircraft at the local airport. According to initial estimates, the insurance industry anticipated that claims payouts could reach as high as TRY1.2 billion (USD340 million), while overall economic losses were even higher. By August 3, the Turkey Insurance Association confirmed 22,000 filed claims totaling TRY168 million (USD48 million).

Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
07/08-07/09	Flooding	Nigeria	20	Hundreds	5.0+ million
07/10	Flooding	Niger	23	2,405	Millions

At least 20 people were killed as severe flooding impacted 16 Nigerian states over the weekend of July 8-9. The affected states included Ekiti, Osun, Akwa Ibom, Kebbi, Niger, Kwara, Ebonyi, Enugu, Abia, Oyo, Lagos, Plateau, Sokoto, Edo, and Bayelsa. Images in local media showed multiple homes, vehicles, and roads inundated. At least 90 homes were destroyed rendering 500 people homeless. The Nigerian government approved the release of NGN1.6 billion (USD5.1 million) to the states that were affected.

Almost 20,000 residents of Niger were affected by flooding that affected all seven regions and claimed 23 lives on July 10. The flooding caused extensive damage to homes, public/community buildings, infrastructure, and agricultural interests. More than 2,400 homes were damaged and at least 4,000 heads of livestock were lost.

Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-06/30	Drought	North Korea, South Korea	N/A	N/A	90+ million
06/22-07/05	Flooding	China	141	412,600	6.4+ billion
07/04-07/06	TS Nanmadol	Japan	37	2,600+	1.0+ billion
07/06	Earthquake	Philippines	3	3,758+	6.9+ million
07/06-07/11	Severe Weather	China	2	2,100+	67+ million
07/07-07/10	Flooding	Vietnam, Laos	19	Hundreds	1.0+ million
07/07-07/11	Flooding	China	22	18,900+	272+ million
07/08-07/12	Flooding	India, Pakistan, Bangladesh	53	115,000+	100s of millions
07/13-07/17	Flooding	China	20	58,100+	3.4+ billion
07/14-07/18	Flooding	China	0	3,200+	33+ million
07/14-07/18	Flooding	India	27	15,000+	450+ million
07/17	Flooding	Afghanistan	36	260+	Millions
07/17-07/18	TS Talas	China, Vietnam, Laos, Thailand	4	4,200+	44+ million
07/17-07/20	Flooding	China	11	3,200+	37+ million
07/18-07/25	Flooding	Thailand, Myanmar	23	12,500+	300+ million
07/19-07/21	Severe Weather	China	12	3,700+	48+ million
07/21-07/26	Flooding	India	53	Thousands	10s of millions
07/22-07/23	Flooding	South Korea	2	2,345+	51+ million
07/23	Earthquake	China	0	8,700+	8.0+ million
07/24-07/28	Severe Weather	China	13	6,500+	171+ million
07/25-07/28	TS Sonca	Vietnam, Laos, Cambodia, Thailand	12	4,176+	Millions
07/29-07/31	TY Nesat & TS Haitang	China, Taiwan, Philippines	1	10,000+	132+ million

The United Nations officials reported that portions of North Korea were in the grip of a severe drought that began in April. Portions of North and South Hwanghae Provinces were heavily affected. Both provinces comprise part of North Korea's "granary zone" and crops affected included staples such as rice and corn. Total yield this year is expected to fall by 30-80 percent from 2016.

Portions of South Korea were affected by drought conditions during the first several months of 2017 after first-half precipitation totaled less than 55 percent of the long-term average. Officials in South Jeolla Province reported that KRW103 billion (USD90 million) was required to ease the drought crisis.

Flooding throughout China's Yangtze River Basin region led to exacerbated damage and loss of life during the period from June 22-July 5. At least 141 people were left dead or missing. Hunan was the worst affected province as the Xiangjiang River crested at an all-time record high level in the capital city of Changsha on July 2. More than 412,600 homes were damaged or destroyed across 11 provinces as more than 3.4 million hectares (8.4 million acres) of agricultural land was submerged. Economic losses were listed by China's Ministry of Civil Affairs (MCA) at nearly CNY43 billion (USD6.4 billion).

Heavy rainfall associated with Tropical Storm Nanmadol and an active Baiu rain-band led to widespread flooding and landslides across southern Japan during the first week of July. At least 37 people were killed and a further 34 were injured. Local officials evacuated nearly 500,000 people from their homes after several rivers overflowed their banks in Fukuoka, Oita, Shimane, Kumamoto, and Hiroshima prefectures. At a minimum, nearly 2,600 homes and other structures were damaged or destroyed. Total economic losses were anticipated to exceed USD1.0 billion.

A USGS-registered magnitude-6.5 earthquake struck Leyte Island in central Philippines on July 6 causing widespread damage to homes and businesses in Kananga municipality and Ormoc City. At least three people were killed and a further 448 were injured. Damage was reported to 3,593 homes, including 1,462 which were destroyed. Damage was reported to an additional 165 public buildings including schools (113) and government offices (35). The National Disaster Risk Reduction and Management Council reported economic losses of almost PHP350 million (USD6.9 million).

Severe weather impacted portions of Beijing, Tianjin, and Hebei provinces, China, from July 6-9 claiming at least one life and causing damage to some 900 homes. Damage to agricultural interests was also reported as 18,300 hectares (45,220 acres) of crops were affected. Widespread disruption was reported across Beijing. The MCA listed economic losses at CNY262 million (USD38 million).

Severe weather impacted north-central China from July 9-11, causing additional damage to agricultural interests. Some 21,200 hectares (52,385 acres) of land was affected. Additionally, one person was killed and damage was reported to 1,200 homes across Hebei, Shanxi, Henan, Shaanxi, Gansu, and Qinghai. Economic losses were listed at CNY199 million (USD29 million).

At least 19 people were killed in Vietnam and Laos from July 7-10 as prolonged heavy rainfall led to widespread flooding and landslides in the northernmost regions of the countries. Thirteen of the fatalities were reported from Vietnam and six were in Laos. More than 80 homes were damaged or destroyed by flooding in Vietnam along with seven bridges. Almost 50 roads were blocked by landslides. Damage was also reported to hundreds of hectares of crops including rice. Economic losses in Vietnam were listed at VND29 billion (USD1.3 million).

The Mei-yu rain band continued to impact a vast swath of China from July 7-11. Multiple provinces in the southern half of China and on the North China Plain were affected. At least 23 people were killed or listed as missing while more than 20,000 others were evacuated. Extensive damage was reported to homes and agricultural interests. In total some 16,400 homes were damaged and 1,600 more were destroyed while an area of 128,100 hectares (316,540 acres) of agricultural land was impacted. The MCA listed aggregated economic losses across the nine affected provinces at CNY1.8 billion (USD272 million).

The Southwest Monsoon continued to bring torrential downpours to portions of India, Bangladesh, and Pakistan unleashing widespread floods, as multiple rivers overflowed their banks, and landslides from July 8-12. Northeastern states of India were among the worst affected areas as at least 46 fatalities were reported in Bihar, Arunachal Pradesh, and Assam. A further seven fatalities were reported in Pakistan's Punjab and Balochistan Provinces. Millions of people were affected as vast swathes of land were submerged including more than 150,000 hectares (370,660 acres) of agricultural land, decimating crops.

Portions of China's Northeast, North China Plain, and Loess Plateau provinces were pounded by severe thunderstorms from July 13-17. Hebei, Shanxi, Liaoning, Jilin, Heilongjiang, Shaanxi, Gansu, and Ningxia Hui were all impacted by powerful wind gusts and large hail. At least 37 people were left dead or missing. Damage was reported to some 58,100 homes and almost 327,800 hectares (810,010 acres) of agricultural land. Total economic losses were listed at CNY23 billion (USD3.4 billion).

Further flooding affected China's Lower Yangtze River Basin provinces (Jiangsu, Anhui, Shandong, Henan, and Hubei) from July 14-18. Some 3,200 homes sustained varying degrees of damage while significant damage to agricultural interests was also reported: 26,800 hectares (66,225 acres) of farmland was submerged. The MCA listed economic losses at CNY221 million (USD33 million).

The death toll in India due to flooding prompted by the monsoon rains continued to rise through mid-July as a further 27 fatalities were reported during the period from July 14-18. Gujarat, Assam, Odisha, Rajasthan, and Himachal Pradesh were among the hardest-hit states. Millions of people were affected and hundreds of roads were submerged. In Assam alone, some 2,500 villages were inundated and more than 203,950 hectares (503,970 acres) of crops were submerged. The Assam government requested INR29 billion (USD450 million) for flood recovery.

At least 36 people were killed and 22 more were injured following flash flooding in the Afghan provinces of Badakhshan, Kabul, and Nangarhar on July 17. At least 250 homes were destroyed in Badakhshan and ten more were destroyed in Sarobi district, Kabul.

Tropical Storm Talas made landfall over Vietnam's Hà Tĩnh province early on July 17 before tracking inland over northern Laos and Thailand prior to its full dissipation. Talas prompted flooding and landslides in northern portions of Vietnam, Laos, and Thailand, and on the Chinese island of Hainan that claimed at least four lives and damaged more than 4,200 homes. The Vietnamese government listed economic damage at VND993 billion (USD44 million).

A further 11 people were killed in China as severe weather outbreaks prompted flooding in portions of Jiangsu, Shandong, Henan, Hubei, and Shaanxi from July 17-20. One other person was listed as missing. Approximately 3,200 homes were damaged and heavy damage was noted to agricultural areas as 30,400 hectares (75,120 acres) of cropland was affected. The worst affected province was Henan. Economic losses were listed by the MCA at CNY252 million (USD37 million).

Parts of Thailand were affected by flooding following heavy rainfall from July 18-24. Among the affected areas were Nakhon Sawan, Lop Buri, Chai Nat, Chanthaburi, Phichit, Phetchabun, Phrae, Uttaradit, Chumphon, Kamphaeng Phet, Chiang Rai, Chiang Mai, Phayao, Ang Thong, Ranong, Lampang, Nan, Yasothan, Ayutthaya, and Trat. Almost 11,050 homes were damaged and 700,000 hectares (1.7 million acres) of crops were submerged. Total economic losses were estimated at THB10 billion (USD300 million). Several regions of Myanmar were also affected during the period as the Irrawaddy (Ayeyarwady), Sittoung, Ngawun, and Toe Rivers all burst their banks inundating vast swathes of their floodplains.

Powerful thunderstorms struck southwestern China from July 19-21 unleashing torrential downpours, strong winds, and large hail. Chongqing, Sichuan, Guizhou, and Yunnan provinces were all affected. At least 12 people were killed. In total 3,800 homes were damaged or destroyed. Extensive damage to agriculture was also reported as 25,400 hectares (62,765 acres) of farmland was affected. The MCA listed aggregated economic losses at CNY327 million (USD48 million).

Vigorous monsoonal activity over western states of India led to extensive flooding from July 21-26 that left at least 48 people dead in two states. Vast swathes of Rajasthan and Gujarat were inundated prompting the emergency evacuation of 70,000 residents. Elsewhere a further five fatalities were reported in and around Kolkata in West Bengal. India's Government announced a relief package worth INR5.0 billion (USD78 million) for the affected districts of Gujarat. Losses to the transport sector alone in Gujarat were estimated at INR60 million (USD0.9 million) per day.

Torrential rainfall over portions of South Korea on July 22-23 led to severe flooding that prompted an emergency declaration for three regions of Chungcheong province. At least two people were killed as floodwaters swept through Cheongju, Cheonan, and Goesan regions. At least 2,345 homes were damaged in Incheon alone; while 140,000 customers were without power in Gyeonggi. Economic losses in Cheongju were listed at KRW57 billion (USD51 million).

A magnitude-4.8 earthquake struck China's Jilin province on July 23 at a shallow depth of 10.0 kilometers (6.2 miles). The event occurred approximately 16 kilometers (10 miles) northwest of Fuyu at 07:14AM CST (23:14UTC, July 22). The MCA indicated that 1,700 residents were rendered homeless as the temblor caused damage to 8,700 homes. Economic losses were listed at CNY54 million (USD8.0 million).

Fierce thunderstorms across China's Loess Plateau from July 24-28 prompted the Dali and Xiao Li Rivers and the Qingshuigou Reservoir to overflow their banks causing widespread damage in Shanxi, Shaanxi, Gansu, Qinghai, and Ningxia Hui provinces. Thirteen people were left dead or missing as at least 6,500 homes were damaged or destroyed. Vast swathes of agricultural land were submerged totaling 60,300 hectares (149,005 acres). Aggregated economic losses were listed at CNY1.2 billion (USD171 million).

Tropical Storm Sonca made landfall in central Vietnam on July 25 and brought torrential rainfall to parts of Vietnam, Laos, Cambodia, and Thailand through July 28. Widespread flooding ensued as several major rivers including the Mekong and Chao Phraya burst their banks leaving at least 12 people dead, the majority of who were in Vietnam (six). Almost 4,200 homes across all four countries were damaged or destroyed and more than 76,040 hectares (187,900 acres) of agricultural land was affected. Among the worst affected areas was Sakon Nakhon province in Thailand. Economic losses in Thailand alone were listed at THB100 million (USD3.0 million).

Simultaneous storms, Typhoon Nesat and Tropical Storm Haitang, made landfall within 24 hours of each other in Taiwan and later in eastern China (Fujian) on July 29-30. The storms combined to cause extensive damage to properties and agriculture in both countries while causing severe disruption to travel and transportation. Aggregated economic losses were minimally listed at USD132 million.

Oceania (Australia, New Zealand, South Pacific Islands)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
07/21-07/23	Winter Weather	New Zealand	0	Thousands	10s of millions

A powerful low pressure system brought heavy rainfall, severe weather outbreaks, and significant snowfall to portions of New Zealand from July 21-23. Severe flooding in western parts of South Island ensued, prompting the evacuation of thousands of residents and emergency declarations in five council areas. There were no reports of any casualties however hundreds of homes were affected and widespread disruption to travel and businesses was reported. Economic losses were expected to reach into the 10s of millions (USD).

Appendix

Updated 2017 Data: January – June

United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-01/03	Severe Weather	Southeast, Plains	6	10,000+	250+ million
01/06-01/13	Winter Weather	Pacific Northwest, Southwest, Rockies	5	40,000+	700+ million
01/06-01/08	Winter Weather	Southeast, East Coast	5	Thousands	Millions
01/13-01/18	Winter Weather	Plains, Midwest	7	Thousands	Millions
01/17-01/19	Winter Weather	West, Rockies	4	Thousands	Millions
01/18-01/23	Severe Weather	Southeast, Plains, West, Northeast	21	100,000+	1.3+ billion
01/19-01/25	Winter Weather	West, Rockies, Plains, Midwest	5	Thousands	Millions
02/07-02/08	Severe Weather	Southeast	1	10,000+	175+ million
02/08-02/09	Winter Weather	Mid-Atlantic, Northeast	1	Unknown	Millions+
02/12-02/14	Flooding	California	0	N/A	200+ million
02/12-02/14	Winter Weather	Upper Mid-Atlantic, Northeast	1	Thousands	Millions+
02/14	Severe Weather	Texas	0	Hundreds	Millions+
02/16-02/18	Flooding	California	7	25,000+	800+ million
02/19-02/21	Flooding	California	1	10,000+	500+ million
02/19-02/20	Severe Weather	Texas	0	20,000+	225+ million
02/24-02/25	Severe Weather	Northeast, Mid-Atlantic	0	Thousands	Millions+
02/27-03/02	Severe Weather	Midwest, Southeast, Mid-Atlantic	4	175,000+	1.9+ billion
03/06-03/10	Severe Weather	Midwest, Plains, Southeast	0	250,000+	2.1+ billion
03/07-03/09	Wildfires	Plains, Rockies, Florida	7	Hundreds	100+ million
03/13-03/15	Winter Weather	Plains, Midwest, Southeast, Northeast	11	Thousands	1.0+ billion
03/20-03/22	Severe Weather	Southeast, Midwest	1	75,000+	975+ million
03/26-03/28	Severe Weather	Plains, Southeast, Midwest	0	180,000+	2.2+ billion
03/28-03/31	Severe Weather	Plains, Southeast, Midwest, Mid-Atlantic	1	30,000+	325+ million
04/01-04/03	Severe Weather	Plains, Southeast	5	30,000+	350+ million
04/04-04/06	Severe Weather	Plains, Mississippi Valley, Southeast	0	70,000+	575+ million
04/07-04/08	Severe Weather	West	1	10,000+	125+ million
04/09-04/11	Severe Weather	Plains, Midwest	1	30,000+	325+ million
04/14-04/20	Severe Weather	Plains, Midwest	0	Thousands	100+ million
04/21-04/26	Severe Weather	Plains, Midwest, Southeast, Mid-Atlantic	1	70,000+	950+ million
04/25-04/27	Severe Weather	Plains, Midwest, Southeast	0	15,000+	125+ million
04/28-05/01	Severe Weather	Midwest, Plains, Southeast, MS Valley	20	100,000+	2.0+ billion
05/02-05/05	Severe Weather	Plains, Mississippi Valley, Southeast	0	20,000+	175+ million
05/08-05/11	Severe Weather	Rockies, Plains	0	250,000+	2.6+ billion
05/15-05/19	Severe Weather	Plains, Midwest, Rockies	3	70,000+	975+ million
05/20-05/24	Severe Weather	Plains, Midwest, MS Valley, Southeast	1	Thousands	Millions
05/25-05/29	Severe Weather	Plains, Midwest, Mid-Atlantic, Rockies	2	40,000+	425+ million
06/02-06/07	Flooding	Florida	0	Thousands	Millions

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
06/02-06/04	Severe Weather	Plains	0	15,000+	175+ million
06/11	Severe Weather	Midwest	0	100,000+	1.4+ billion
06/12-06/14	Severe Weather	Plains, Rockies	0	70,000+	850+ million
06/15-06/19	Severe Weather	Plains, Midwest, Northeast	0	55,000+	525+ million
06/21-06/23	TS Cindy	Southwest	2	Hundreds	Millions
06/27-06/30	Severe Weather	Plains, Midwest, Northeast	0	90,000+	1.0+ billion

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/24-01/27	Winter Weather	Canada	2	Hundreds	10s of Millions
03/08	Severe Weather	Canada	1	10,000+	125+ million
03/11	Winter Weather	Canada	0	Thousands	Millions
04/15-05/10	Flooding	Canada	0	Thousands	Millions
04/20-04/23	Flooding	Jamaica, Haiti, Dominican Republic	2	Thousands	Millions
05/05-05/10	Flooding	Canada	2	Thousands	10s of millions
05/05-05/20	Flooding	Canada	2	5,200+	100s of millions
05/23-05/24	Severe Weather	Canada	0	Thousands	10s of millions
06/01	TS Beatriz	Mexico	6	Hundreds	Millions
06/02	Severe Weather	Canada	0	3,000+	30+ million
06/10-06/11	Flooding	Honduras, Guatemala	4	Hundreds	10s of millions

South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-02/01	Wildfire	Chile	11	2,500+	870+ million
01/01-04/01	Flooding	Peru	120	245,000+	3.1+ billion
02/24-02/26	Flooding	Chile	6	Hundreds	Millions
03/17-03/27	Flooding	Colombia	12	Hundreds	Millions+
04/01	Flooding	Colombia	420	2,500+	10s of millions
04/19	Landslide	Colombia	24	100+	Millions
05/26-05/29	Flooding	Brazil	14	Thousands	100+ million
05/24-06/19	Flooding	Uruguay, Argentina	0	Thousands	10s of millions
06/16-06/17	Flooding	Chile	4+	800+	100s of millions

Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/02-01/13	Winter Weather	Central, Eastern, Southeastern Europe	76	Thousands	10s of millions
01/12-01/13	WS Dieter & Egon	France, Germany	0	25,000+	450+ million
01/18	Earthquake	Italy	30	Hundreds	TBD
01/20-01/24	Severe Weather	Spain, France, Italy	3	Hundreds	Millions
02/03-02/06	EU Windstorms	Spain, France	2	Thousands	Millions+
02/23-02/24	WS Thomas	Western & Central Europe	3	Thousands	475+ million
03/06-03/07	WS Zeus	France	2	Thousands	550+ million
04/19-04/24	Winter Weather	Germany, Austria, Switzerland, Italy	0	Thousands	300+ million
05/29	Severe Weather	Russia	16	Thousands	Millions
06/12	Earthquake	Greece, Turkey	1	1,100+	10s of millions
06/17-06/18	Wildfire	Portugal	64	1,000+	565+ million
06/22-06/25	Severe Weather	Central & Southern Europe	4	Thousands	550+ million

Middle East

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
04/14-04/15	Flooding	Iran	48	Hundreds	353+ million
05/13	Earthquake	Iran	3	Thousands	Millions

Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-03/31	Drought	Somalia, Ethiopia, Kenya	100s	N/A	1.9+ billion
01/01-03/31	Flooding	Zimbabwe	271	Thousands	200+ million
01/01-06/01	Drought	South Africa	N/A	N/A	100+ million
01/05-01/12	Flooding	South Africa, Angola	7	5,000+	Millions
02/15-02/16	Cyclone Dineo	Mozambique	7	107,204+	17+ million
03/07	Cyclone Enawo	Madagascar	99	85,000+	20+ million
03/19	Severe Weather	Ghana	19	0	N/A
03/21-03/24	Flooding	Angola	11	5,300+	Millions
05/08-05/16	Flooding	Kenya, Tanzania	33	Thousands	194+ million
06/07-06/08	Severe Wx & Wildfires	South Africa	11	Thousands	500+ million
06/10-06/16	Flooding	Niger, Ivory Coast	27+	700+	10s of millions

Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-01/31	Flooding	Thailand	96	585,000+	860+ million
01/01-01/23	Flooding	Malaysia	0	Thousands	132+ million
01/12-01/16	Flooding	Philippines	11	Hundreds	Unknown
01/16-01/31	Flooding	Philippines	11	1,000+	8.1+ million
01/20	Landslide	China	12	One	Unknown
01/22-01/24	Flooding	Pakistan	5	Hundreds	Unknown
01/24-01/25	Winter Weather	Afghanistan	31	N/A	Unknown
01/25-01/26	Winter Weather	India	11	N/A	Unknown
01/25-01/30	Flooding	Indonesia	1	2,000+	Millions
01/28	Earthquake	China	0	14,000+	55+ million
02/01-02/05	Winter Weather	Afghanistan, Pakistan	159	325+	Unknown
02/09-02/12	Flooding	Indonesia	12	18,000+	Millions+
02/10	Earthquake	Philippines	8	7,200+	40+ million
02/17-02/19	Winter Weather	Afghanistan, Pakistan	58	N/A	N/A
01/01-05/01	Drought	Sri Lanka	N/A	N/A	10s of millions
03/01	Severe Weather	China	7	13,700+	28+ million
03/03	Flooding	Indonesia	8	3,482+	19+ million
03/14-03/29	Severe Weather	Thailand	3	6,000+	Millions
03/27	Earthquake	China	0	45,000+	50+ million
03/28-04/15	Flooding	Bangladesh	0	Thousands	352+ million
04/01	Landslide	Indonesia	28	23+	11+ million
04/04-04/09	Earthquake	Philippines	0	5,000+	Millions
04/08-04/10	Severe Weather	China	2	2,300+	36+ million
04/15	TD 02W	Philippines	10	170+	Millions
04/15-04/17	Severe Weather	China	0	3,800+	41+ million
04/20-04/22	Heatwave	India	10	N/A	N/A
04/22	Severe Weather	Pakistan	11	Hundreds	Unknown
04/29	Landslide	Kyrgyzstan	24	11+	Unknown
04/29	Flooding	Indonesia	10	71+	Unknown
05/01-05/31	Drought	China	N/A	N/A	122+ million
05/01	Severe Weather	Bangladesh	12	Unknown	Unknown
05/07-05/20	Flooding	China	17	15,000+	225+ million
05/11	Earthquake	China	8	59,300+	294+ million
05/12-05/15	Flooding	Indonesia	7	5,000+	Millions
05/13-05/15	Severe Weather	China	1	5,000+	147+ million
05/20-05/24	Severe Weather	China	9	20,000+	294+ million
05/25-05/31	Flooding	Sri Lanka	~290	23,000+	197+ million
05/29-05/31	Cyclone Mora	Bangladesh, Myanmar	9	50,000+	100+ million
05/31-06/05	Flooding	China, Taiwan	4	10,100+	368+ million
06/01-06/03	Flooding	Indonesia	4	60,000+	10s of millions
06/05-06/07	Heatwave	India	28	N/A	Unknown
06/09-06/12	Flooding	China	11	11,500+	115+ million

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
06/10	Severe Weather	Pakistan	15	Hundreds	Millions
06/12-06/13	Flooding	China	1	1,500+	51+ million
06/12-06/13	Flooding	Bangladesh, India	169+	5,000+	10s of millions
06/15-06/21	Flooding	China	9	400+	93+ million
06/21-06/22	Severe Weather	China	2	400+	50+ million
06/23	Landslide	China	83	62+	Millions
06/30-07/04	Flooding	Pakistan	43	Hundreds	Unknown

Oceania (Australia, New Zealand, South Pacific Islands)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/20-01/23	Flooding	French Polynesia	0	1,000+	Millions
02/09-02/13	Wildfires	Australia	0	1,200+	10s of Millions
02/09-02/16	Flooding	Australia	2	Thousands	100s of Millions
02/17-02/19	Severe Weather	Australia	1	53,700+	525+ million
03/07-03/12	Flooding	New Zealand	0	7,800+	90+ million
03/28-04/05	CY Debbie	Australia	14	66,000+	2.4+ billion
04/09-04/14	Cyclone Cook	Vanuatu, New Caledonia, New Zealand	1	Thousands	Millions
05/04-05/10	Cyclone Donna	South Pacific Islands, New Zealand	2	Hundreds	Millions

Additional Report Details

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

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

Structures defined as any building – including barns, outbuildings, mobile homes, single or multiple family dwellings, and commercial facilities – that is damaged or destroyed by winds, earthquakes, hail, flood, tornadoes, hurricanes or any other natural-occurring phenomenon. Claims defined as the number of claims (which could be a combination of homeowners, commercial, auto and others) reported by various public and private insurance entities 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. Specific events may include modeled loss estimates determined from utilizing Impact Forecasting's suite of catastrophe model products.

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