

May 2014 Global Catastrophe Recap



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Executive Summary

- Multiple outbreaks of severe weather lead to costly month for insurers in the United States
- Billion-dollar flood events inundate Southeast Europe (Balkans) and China
- Wildfires damage or destroy hundreds of homes and structures in Texas and California

No fewer than four stretches of severe weather affected the United States during the month of May, with aggregate insured losses approaching USD4.0 billion. Overall economic losses were at least USD5.5 billion, with large hail and damaging winds the primary driver of the thunderstorm-related costs.

The costliest stretch occurred during a five-day period which saw damage incurred in parts of the Midwest, Plains, Rockies, Mid-Atlantic and the Northeast, including the major metropolitan areas of Chicago, IL and Denver, CO. Up to baseball-sized hail and straight-line winds gusting in excess of 70 mph (110 kph) were recorded that severely impacted residential, commercial, and automobile interests. Total economic losses were estimated at USD4.25 billion, with insurers reporting losses minimally at USD2.9 billion.

Through the end of May, tornado activity in the United States remained in the bottom 25th percentile of all years dating to the early 1950s.

The heaviest rains in 120 years fell across portions of Southeast Europe during the second half of May, causing extensive flooding in Serbia and Bosnia. At least 80 people were killed. Overflowing rivers inundated more than 100,000 homes alone in Bosnia and caused mass evacuations throughout much of the Balkans. Beyond property damage, commercial and agricultural interests were heavily affected and infrastructure was decimated. Economic losses were estimated to be near EUR3.3 billion (USD4.5 billion), though insured losses were significantly less given low penetration rates.

Elsewhere, several days of heavy rainfall across southern China led to widespread flooding late in the month. At least 37 people were killed. The most severe damage was recorded in the provincial regions of Guangdong, Jiangxi, Hunan, and Guizhou following more than 95,000 homes being damaged or destroyed by flood inundation. Roughly 265,000 hectares (655,000 acres) of agricultural land was also damaged. The Ministry of Civil Affairs (MCA) estimated economic losses at CNY7.4 billion (USD1.2 billion).

The combination of excessive heat, extreme drought conditions, low relative humidity levels and gusty winds led to dozens of wildfires across parts of the Texas Panhandle and Southern California. Two people were killed. In Texas, the most significant fire was in Hutchinson County, where at least 225 homes and 143 unoccupied structures were damaged or destroyed. In California, at least 14 fires were ignited in the greater San Diego metropolitan region, including the Poinsettia Fire that destroyed eight homes, an 18-unit condominium complex, and two commercial buildings. Overall fire costs/damages from the two states approached USD100 million.

A USGS-measured magnitude-6.0 earthquake struck northern Thailand, killing at least one person and injuring 23 others. Damage was observed in seven provinces, with Chiang Rai's Phan district being closest to the epicenter and more than 3,500 homes and other structures sustaining damage. Total economic losses were listed at THB2.0 billion (USD62 million), while insured losses were THB500 million (USD15 million).

In China, two earthquakes (magnitudes 5.8 and 5.9) struck within one week's time in Yunnan Province near the border of Myanmar. A combined 60 people were injured. The first tremor damaged or destroyed at least 45,000 structures, with total economic losses estimated at CNY367 million (USD60 million). The second temblor damaged nearly 22,000 homes in Yingjiang County.

A strong offshore magnitude-6.9 earthquake rattled parts of Greece and Turkey, leading to at least 324 injuries. However, damage was much less than initially feared with less than 1,000 structures officially reporting impacts.

United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
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+	950+ million
5/11-5/20	Wildfires	Texas, California	2	400+	100+ million
5/18-5/23	Severe Weather	Midwest, Rockies, Northeast	0	425,000+	4.25+ billion
5/24-5/28	Severe Weather	Southwest	0	25,000+	200+ million

Widespread shower and thunderstorm activity led to severe hail and straight-line wind damage throughout the Plains and Midwest between the 7th and 9th. No serious injuries or fatalities were recorded. Among the hardest-hit states included Texas, Colorado, Missouri, Kansas, and Minnesota as cities reported baseball-sized hail and winds gusting to 90 mph (150 kph). Several other states in the Plains and Midwest also incurred similar damage reports. Total economic losses were estimated at USD250 million, while insurers noted losses in excess of USD150 million.

Consecutive days of severe weather was recorded across portions of the Plains, Midwest and Mid-Atlantic between the 10th and 15th along a stationary frontal boundary. Heavy damage was registered in several states (including Illinois, Indiana, Ohio, Missouri, Kansas, and Nebraska) that was primarily caused by large hail and straight-line winds. Torrential rainfall also led to flash flooding in several areas. Total economic losses were estimated at USD950 million, while insurers noted losses in excess of USD625 million.

Excessive heat, extreme drought conditions, low relative humidity levels and gusty winds led to wildfires across parts of the Texas Panhandle and Southern California in mid-May. Two people were killed. In Texas, the most significant fire was in the town of Fritch in Hutchinson County. The fire damaged at least 225 homes and 143 unoccupied structures, with damages listed in the tens of millions (USD). In California, at least 14 fires were ignited in the greater San Diego metropolitan region, including the Poinsettia Fire that destroyed eight homes, an 18-unit condominium complex, and two commercial buildings. Overall fire costs/damages from the two states approached USD100 million.

Days of severe thunderstorms affected multiple sections of the United States between the 18th and 23rd. Dozens of people were injured. The most significant damage was noted in parts of the Midwest, Plains, Rockies, Mid-Atlantic, and the Northeast – including major metropolitan areas of Chicago, IL and Denver, CO – following baseball-sized hail and damaging winds beyond 70 mph (110 kph) severely impacting residential, commercial and automobile interests. Total economic losses were estimated at USD4.25 billion, with insurers reporting losses minimally at USD2.9 billion.

An active weather pattern spawned up to softball-sized hail, damaging straight-line winds, tornadoes, and flooding rains in the Southwest between the 24th and 28th. Portions of Texas and New Mexico were among the hardest-hit, where slow-moving thunderstorms caused widespread damage. The Insurance Council of Texas cited the city of Alice as sustaining extensive damage from one of its worst storm events in recent memory. In Roswell, NM, the heaviest 24-hour rainfall total in nearly 60 years led to flash flooding. Total economic losses were estimated at USD200 million, with insurers noting losses beyond USD125 million.

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
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No major natural disaster events occurred in the Remainder of North America during the month of May.

South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
5/19-5/23	Severe Weather	Brazil	0	Thousands+	Millions+

A major hailstorm blanketed parts of Sao Paulo, Brazil on the 19th, injuring several people and causing widespread residential and agricultural damage. The storm left several centimeters (inches) of accumulating hail. Elsewhere, nearly 37,000 people were forced to evacuate their homes in Para state due to several days of flooding in the Amazon River basin. Seven towns declared states of emergencies.

Europe

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

The heaviest rains in 120 years fell across portions of Southeast Europe during the second half of May, causing extensive flooding in Serbia and Bosnia. At least 80 people were killed. The rains led to significant flash flooding and more than 3,000 landslides. Overflowing rivers inundated more than 100,000 homes alone in Bosnia and caused mass evacuations in the rest of the Balkans. Officials declared the event minimally as a 1-in-100 year scenario after one-third of the entire annual rainfall fell in a matter of days. Beyond property damage, commercial and agricultural interests were heavily affected and infrastructure was decimated. Aggregated economic losses were estimated to be near EUR3.5 billion (USD4.5 billion), though insured losses were significantly less given low penetration rates.

A strong offshore magnitude-6.9 earthquake rattled parts of Greece and Turkey on the 24th, leading to at least 324 injuries. The temblor was registered at 11:25 AM local time (9:25 UTC) with an epicenter located 19 kilometers (12 miles) south of Kamariotissa, Greece at a depth of 10 kilometers (6.2 miles). Despite the earthquake being felt throughout Greece and Turkey, damage was much less than initially feared. Local emergency management officials in each country cited that hundreds of homes, schools, and mosques had been damaged, but the overall scope was not significant in nature.

Torrential rains fell across portions of Russia's Siberia region between the 27th and 31st, causing widespread flooding. The most significant damage was registered in Altai Territory, plus the Republics of Altai, Tuva, and Khakassia, where the Ministry of Emergency Situations reported that a combined 7,497 homes were damaged. Nearly 8,400 farms were submerged and nearly 10 bridges were damaged as well. Total economic losses were estimated at RUB500 million (USD15 million).

Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
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No major natural disaster events occurred in Africa during the month of May.

Asia

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

Freezing temperatures and high winds combined to cause widespread damage across portions of northern China between the 3rd and 7th. Nearly 200,000 hectares (494,000 acres) of cropland was affected in the provincial regions of Hebei, Shaanxi, Shanxi, and Inner Mongolia. The Ministry of Civil Affairs (MCA) listed economic losses at CNY2.6 billion (USD417 million).

A USGS-measured magnitude-6.0 earthquake struck northern Thailand on the 5th, killing at least one person and injuring 23 others. The tremor was recorded at 6:08 PM local time (18:08 UTC) with an epicenter located 9 kilometers (6 miles) south of Mae Lao, Thailand. Damage was observed in several provinces, including Chiang Rai, Lampang, Lamphun, Mae Hong Son, Phayao, Phrae, and Nan. Chiang Rai's Phan district was the epicenter of the event, where more than 3,500 homes and other structures were damaged. Total economic losses were listed at THB2.0 billion (USD62 million), while insured losses were THB500 million (USD15 million).

Periods of heavy rains fell across southern and eastern sections of China between the 8th and 15th, leading to widespread flooding and landslides in eight provinces. At least three people were killed and several others were injured. The rains were heaviest in portions of Hunan, Jiangxi, Guangdong, Guangxi, Fujian, Hubei, Yunnan, and Guizhou. According to local MCA offices, damage was prevalent across more than 100 county-level regions with a combined 15,000 homes damaged or destroyed by flood inundation. Economic losses were listed at CNY2.8 billion (USD450 million).

A magnitude-5.8 earthquake struck China's Yunnan Province near the border of Myanmar on the 24th, injuring at least 15 people. The tremor occurred at 4:49 AM local time (20:49 UTC Friday) with an epicenter located 23 kilometers (14 miles) north-northwest of Pingyuan, China at a depth of 10 kilometers (6.2 miles). The local MCA reported that nearly 10,000 homes collapsed and 35,000 others sustained varying levels of damage across 15 towns in Yingjiang County. Total economic losses were estimated at CNY367 million (USD60 million).

Several days of heavy rainfall across southern China led to widespread flooding between the 25th and 28th, killing at least 37 people. The most severe damage was recorded in the provincial regions of Guangdong, Jiangxi, Hunan, and Guizhou following more than 95,000 homes being damaged or destroyed by flood inundation. Several rivers overflowed their banks as more than 130 county-level regions endured varying level of flooding impacts. Roughly 265,000 hectares (655,000 acres) of agricultural land was also damaged. The MCA estimated economic losses at CNY7.4 billion (USD1.2 billion).

A magnitude-5.9 earthquake struck China's Yunnan Province near the border of Myanmar on the 30th, injuring at least 45 people. The tremor occurred at 9:20 AM local time (1:20 UTC) with an epicenter located 27 kilometers (17 miles) north of Pingyuan, China at a depth of 10 kilometers (6.2 miles). Damage was concentrated in Yingjiang County, where nearly 22,000 homes were damaged or destroyed.

Rounds of thunderstorms impacted northern and eastern portions of India on the 30th and 31st, killing at least 15 people. The storms spawned damaging winds that downed trees and caused some homes to collapse in the states of Uttar Pradesh and West Bengal. Lightning strikes also led to casualties.

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
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No major natural disaster events occurred in Oceania during the month of May.

APPENDIX

Updated 2014 Data: January – April

United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
1/1-5/1	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	70,000+	525+ million
3/28	Earthquake	California	0	Hundreds+	25+ million
4/2-4/4	Severe Weather	Plains, Midwest, Southeast	0	110,000+	950+ million
4/12-4/14	Severe Weather	Plains, Midwest, Southeast	0	65,000+	625+ million
4/27-5/1	Severe Weather	Central/Eastern U.S.	39	100,000+	2.0+ billion

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

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+

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
4/12-4/16	Wildfire	Chile	15	2,900+	34+ million

Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
12/23-3/1	Flooding	United Kingdom	0	17,500+	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+	800+ 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

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+

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

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

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

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+
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

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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