

Q3 Global Catastrophe Recap

October 2023



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Executive Summary

The third quarter of 2023 saw multiple significant disaster events, which drove total year-to-date economic losses above \$295 billion, approaching the 21st-century annual average of \$310 billion. The costliest event of the quarter was the widespread flooding in Beijing and several Chinese provinces in early August.

Insured losses from severe convective storms in the United States continued to increase due to relentless activity and surpassed the \$50 billion mark for the first time on record, accounting for roughly 60% of all global insured losses. Another significant event for the industry was the wildfire that destroyed the town of Lahaina in Hawaii. Total aggregated insured losses from natural disasters in the first three quarters were estimated to exceed \$88 billion, and the number of billiondollar events is already expected to set a record in 2023. These numbers are preliminary and expected to evolve in the next months.

Aggregated death toll from 2023 events is already running above 75,000, making this year the deadliest since 2010. Several significant events occurred in Q3, including the flooding associated with the Mediterranean storm Daniel, and the earthquake in Morocco. Disaster costs continued to be affected by macroeconomic factors and continuing inflationary pressure.



Averages and medians since 2000. All losses are in 2023 USD (adjusted for price inflation). Data: Aon Catastrophe Insight

Economic Losses Closing in on Annual Average

Global economic losses from natural disasters in the first three quarters of 2023 were preliminarily estimated at **\$295 billion**, above the 21st-century Q1-Q3 average of \$265 billion. It is likely that the annual losses will approach or even surpass the long-term (\$310 billion) and decadal (\$339 billion) averages due to additional anticipated activity in Q4 and loss development for recent disaster events. It is currently estimated that by the end of September, the world saw at least 47 individual billion-dollar disasters, which was the fifth-highest number on a price-inflated basis.

EXHIBIT 1: Q1-Q3 Global Natural Disaster Losses

Data: Aon Catastrophe Insight

EXHIBIT 2: Q1-Q3 2023 Economic Loss Events

Several significant events in Q3 changed the ranking of the top 10 loss events of the year to date. In particular, seasonal flooding in China, which includes the catastrophic episode in Beijing in August and floods in major river basins, resulted in aggregated economic losses exceeding \$30 billion. The wildfire, which destroyed Lahaina in Hawaii, impacted an incomparably smaller area, yet also resulted in multi-billion-dollar losses.

| Date | | | | |
|-------------|----------------------------|----------------------------|--------|------|
| 02/06 | Turkey & Syria Earthquakes | Turkey & Syria | 59,259 | 91.7 |
| May-Sep | China Seasonal Floods | China | 370 | 31.9 |
| 01/01-06/30 | La Plata Basin Drought | Brazil, Argentina, Uruguay | N/A | 10.1 |
| 05/13-05/17 | Emilia-Romagna Floods | Italy | 15 | 9.7 |
| 03/01-03/03 | Severe Convective Storm | United States | 13 | 6.2 |
| 08/08-08/17 | Hawaii Wildfires | United States | 97 | 6.0 |
| 01/01-06/30 | Drought | Spain | N/A | 5.6 |
| 03/31-04/01 | Severe Convective Storm | United States | 37 | 5.5 |
| 06/21-06/26 | Severe Convective Storm | United States | 7 | 5.0 |
| 07/18-07/25 | Severe Convective Storm | Italy, Europe | 14 | 4.3 |

EXHIBIT 3: Top 10 Costliest Economic Loss Events in Q1-Q3 2023

From a regional perspective, the **EMEA** region accounted for the largest portion of global economic losses with the current estimate of \$134 billion. This was primarily driven by significant earthquakes, with the Morocco event in September being a notable addition. Economic losses in APAC were running lower than average, while total damage from the events in the Americas was close to the median (with an outlier in 2017). United States recorded losses were slightly below the 21st-century Q1-Q3 average, yet already 25% higher than the median.

EXHIBIT 4: Q1-Q3 Economic Losses by Region (2023 USD bn)

Data: Aon Catastrophe Insight

High Frequency of Costly Insured Loss Events

Global insured losses from natural disaster events in the first three quarters of 2023 were estimated to reach at least **\$88 billion**, which was higher than the average (\$75 billion) and median (\$62 billion) for the period. From an annual perspective, it is now likely that the eventual 2023 losses will also surpass the yearly average of \$89 billion. Remarkably, 32 individual billion-dollar disasters likely occurred, which is already the highest annual total on record. This was largely due to relentless severe convective storm activity in the United States, which contributed with 21 individual events.

EXHIBIT 5: Q1-Q3 Global Insured Losses

Count of Billion-Dollar Events

Data: Aon Catastrophe Insight

EXHIBIT 6: Q1-Q3 2023 Insured Loss Events

Severe convective storm events in the United States dominated the table of top 10 costliest events in terms of insured loss, even though none of them were expected to surpass the February earthquake sequence in Turkey and Syria. The Hawaii wildfires, including the catastrophic event that destroyed the town of Lahaina, were expected to rank among the eight costliest wildfires ever recorded.

| 02/06 | Turkey & Syria Earthquakes | Turkey & Syria | 59,259 | 5.7 |
|-------------|----------------------------|----------------|--------|-----|
| 03/01-03/03 | Severe Convective Storm | United States | 13 | 5.0 |
| 03/31-04/01 | Severe Convective Storm | United States | 37 | 4.4 |
| 06/21-06/26 | Severe Convective Storm | United States | 7 | 4.0 |
| 06/10-06/15 | Severe Convective Storm | United States | 3 | 3.1 |
| 06/15-06/20 | Severe Convective Storm | United States | 5 | 3.0 |
| 08/08-08/17 | Hawaii Wildfires | United States | 97 | 3.0 |
| 05/09-05/14 | Severe Convective Storm | United States | 1 | 2.9 |
| 04/18-04/22 | Severe Convective Storm | United States | 3 | 2.3 |
| 04/03-04/07 | Severe Convective Storm | United States | 5 | 2.3 |

EXHIBIT 7: Top 10 Costliest Insured Loss Events in Q1-Q3 2023

Disaster events in the United States accounted for roughly three-quarters of global insured losses in Q1-Q3 of 2023, reaching approximately \$65 billion. This is already higher than the long-term annual average and median. While EMEA recorded the highest economic losses, the portion of that total that was covered by insurance was significantly lower than in the United States, owing to a large protection gap for major events, including earthquakes, floods, and droughts. Insured losses in both APAC and the Americas remained below their means.

EXHIBIT 8: Q1-Q3 Insured Losses by Region (2023 USD bn)

Earthquake, SCS and Flooding Account for Most Losses

EXHIBIT 9: Q1-Q3 2023 Economic & Insured Losses by Peril (2023 USD bn)

While the overall proportion of economic losses covered by insurance was close to the long-term average, the structure of the individual contributions from regional and peril perspectives was completely different. Tropical Cyclone and flooding events typically account for the largest part of total economic losses through Q3 (see Exhibit 10). However, earthquakes and severe convective storms were responsible for more than 60% of total economic losses in 2023. Severe Convective Storms caused approximately 70% of global insured losses in 2023, compared to an average of 34%.

EXHIBIT 10: Q1-Q3 Economic & Insured Losses by Peril and the Protection Gap (2023 USD bn)

Data: Aon Catastrophe Insight

Deadliest Year Since 2010 Driven by Earthquakes

The combined year-to-date death toll of more than 75,000 already makes 2023 the deadliest year in terms of natural disasters since 2010. In the third quarter, several significant and deadly events occurred – most notably the catastrophic flash flooding in northeastern Libya, which was a result of rainfall released by Storm Daniel and following infrastructural failures. The September earthquake in Morocco currently ranks as the third deadliest event of the year with nearly 3,000 fatalities.

| 02/06 | Turkey & Syria Earthquakes | Turkey & Syria | 59,259 |
|-------------|----------------------------|----------------------------------|--------|
| 09/04-09/12 | Storm Daniel | Libya, Greece, Bulgaria, Turkey | 4,361 |
| 09/08 | Morocco Earthquake | Morocco | 2,946 |
| Apr-Sep | India Seasonal Floods | India | 2,432 |
| 02/20-03/15 | Cyclone Freddy | Southern Africa | 1,434 |
| 05/02-05/05 | Eastern DRC Floods | Democratic Republic of the Congo | 470 |
| 05/13-05/15 | Cyclone Mocha | Myanmar, Bangladesh, India | 466 |
| 06/15-07/31 | June & July Heatwaves | United States, Mexico | 396 |
| May-Sep | China Seasonal Floods | China | 370 |
| Jun-Sep | Pakistan Seasonal Floods | Pakistan | 226 |

EXHIBIT 11: Top 10 Deadliest Events in Q1-Q3 2023

What Resonated in Q3 2023

Additional storm activity continued to drive record-breaking SCS losses

For the first time in history, total insured losses related to severe convective storms in the United States are expected to exceed \$50 billion. In Q3 alone, at least 4, potentially 7 additional billion-dollar disasters (in terms of insured loss) occurred. The month of July had the most local storm reports of any month in 2023, with over 1,200 more reports than the next month. Severe wind was the largest storm report category, with reports concentrated over the Great Plains and eastern U.S.

The severe convective storm peril also resonated in Europe. In particular, relentless hailstorm activity in northern Italy throughout the month of July resulted in record-breaking insurance payouts for the country, potentially reaching €2 billion. On July 24, a hailstone of 19 cm (7.5 inches) in diameter was documented in Azzano Decimo, setting a new European record.

EXHIBIT 12: Q1-Q3 Insured Losses from Severe Convective Storms (2023 \$ bn)

Data. Aon Oatastrophe insight

Destructive Maui fires show that the peril is not limited to California

Amidst a relatively mild wildfire season across the United States, especially compared to recent years, the devastating Maui wildfires in Q3 proved to be among the deadliest and costliest in U.S. history. Perhaps even more noteworthy is that this event occurred outside of California, a state known for several, recent billion-dollar wildfire events. In spite of Maui's proximity to the ocean, the event occurred due to several coinciding factors. This included preceding drought conditions, local topography, and an ideal atmospheric setup with Hurricane Dora playing a crucial role, despite not having affected Hawaii directly. The event highlights the danger wildfires present to unexpected areas. Given that climate change can potentially further exacerbate drought and wildfire conditions worldwide, preparations for similar events in the future will be vital.

| Aug 2023 | Maui/Hawaii Wildfires | Hawaii | 3.0 |
|--------------|-----------------------|-----------|-----|
| Dec 2021 | Marshall Fire | Colorado | 2.7 |
| Aug-Oct 2020 | Beachie Creek Fire | Oregon | 1.6 |
| Nov-Dec 2016 | Chimney Tops 2 Fire | Tennessee | 1.2 |
| Sep 2020 | Almeda Drive Fire | Oregon | 0.9 |

EXHIBIT 13: Top 5 Costliest U.S. Wildfires outside of California

EMEA region impacted by another deadly earthquake

On September 8, a magnitude-6.8 earthquake occurred in the Moroccan High Atlas Mountain range near Oukaïmedene. The event claimed nearly 3,000 lives, injured more than 5,600 people, and caused significant material damage across the affected area. It was also significant for the local insurance industry. Comparison with the historic 1960 Agadir earthquake, which killed 13,000 people, is noteworthy. While the 2023 event was larger in magnitude, the main impact occurred in mostly rural areas of the Atlas Mountains. Furthermore, the population of Agadir in 1960 was around 40,000 (13,000+ were killed). Today's population of the city is 12x larger (~490,000).

Relatively low hurricane losses

Hurricane losses in the U.S. were lower than average in Q3, which is considered the peak of the Pacific and Atlantic hurricane seasons. Two notable tropical systems, Hilary and Idalia, still caused significant losses that, collectively, reached into the billions USD. Notably, Idalia struck Florida as a high-end category 3 hurricane, becoming the 4th major hurricane to make landfall in Florida in the last 6 years. However, the remoteness of Florida's Big Bend region, near where the storm made landfall, potentially mitigated much higher losses from materializing. Meanwhile, the western Pacific saw 7 tropical systems primarily impacting the Philippines, Taiwan, China, and Japan in Q3.

Libya flood disaster highlights infrastructure neglect in a failed state

The destructive flash flooding in northeastern Libya in early September damaged thousands of buildings in Derna city and ranked as the second deadliest event of the year with more than 4,300 fatalities. While the total event rainfall generated by Storm Daniel was unprecedented, the disastrous impact of the flooding was amplified by the destruction of two dams in the Derna Wadi that could potentially hold up to 24 million cubic meters of water together. Both damaged dams were constructed in the 1970s and suffered major damage after a strong storm that hit the region in 1986. Despite the money allocations for their repair in 2012 and 2013, no work was done in the area. Ten years later, the destruction of the dams likely exacerbated the total death toll and material damage.

Understanding Extreme Heat

An Increasing Risk for people, Businesses and Society

Risks from chronic perils such as heat have traditionally been a blind spot in the insurance industry despite the increasing cumulative costs of these frequent events over time. In the wake of record breaking high global temperatures in 2023, the rising frequency of extreme heat due to climate change creates an urgency for the risk industry to analyze climate trends for better risk mitigation.

A Year of Record Heat

Extreme heat reached record-breaking highs this past June-September, according to the National Oceanic and Atmospheric Administration's (NOAA) 174-year climate record. In addition to deadly heatwaves that have swept across South America, Southeast Asia, and Canada in the first half of the year, many densely populated regions in Europe and the U.S. saw prolonged record-breaking heat. Sea surface temperatures in the North Atlantic this past summer set record highs, prompting NOAA to increase its Atlantic hurricane outlook to 'above normal' entering peak hurricane season.

EXHIBIT 14: Monthly Global Temperature Anomalies (1850-2023) Compared To 1901-2000 Baseline (°C)

This rising frequency of extreme heat creates an urgency for the risk industry, as well as businesses within the broader economy, to understand the diverse impacts these events can have. Unlike acute perils, the full impacts from chronic perils like extreme heat are often cumulative and can be difficult to measure. This creates new opportunities for risk managers to leverage non-traditional risk transfer tools—like <u>parametric insurance</u>—to unlock flexible sources of capital.

| Albania | Kuçovë | 44.0 | 111.2 | 07/25 |
|-----------|-----------------|------|-------|-------|
| Chad | Faya-Largeau | 48.0 | 118.4 | 05/25 |
| China | Sanbao | 52.2 | 126.0 | 07/16 |
| Hong Kong | Sheung Shui | 41.5 | 106.7 | 05/31 |
| Laos | Luang Prabang | 43.5 | 110.3 | 05/06 |
| Morocco | Agadir | 50.4 | 122.7 | 08/11 |
| Singapore | Ang Mo Kio | 37.0 | 98.6 | 05/13 |
| Thailand | Tak | 45.4 | 113.7 | 04/15 |
| Turkey | Sarıcakaya | 49.5 | 121.1 | 08/15 |
| Vietnam | Tu'o'ng Du'o'ng | 44.2 | 111.6 | 05/07 |

EXHIBIT 15: National All-time Temperature Records Set or Tied in Q1-Q3 2023

The Business and Societal Impacts of Rising Temperatures

Heath Impact

The most devastating impact of extreme heat is on human health and life. In the United States and Australia, heat causes more deaths¹ than any other weather-related peril². Europe, too, has experienced the dire consequences of extreme heat. <u>Aon's 2023 Weather, Climate and Catastrophe Insight</u> reported two separate major heatwaves hit Europe in June and July of 2022, affecting hundreds of millions of people and leading to nearly 20,000 heat-related fatalities, as derived from excess mortality rate data. Heat can cause death in a variety of ways, such as heat stroke, cardiovascular disease, and respiratory failure. It has important indirect health effects too—heat and poor air quality often go together, as the weather conditions conducive to heatwaves tend to also trap air pollution near the earth's surface. Urban environment tends to exacerbate heat impacts, as infrastructure retains and re-emits heat from the sun, making cities hotter than natural landscapes.

Business Impact

From a business perspective, extreme heat can have broad and sweeping impacts that negatively impact operations, productivity and employee well-being. In industries like construction and agriculture, high temperatures and humidity cause worker fatigue, reducing labor productivity. Research suggests labor productivity losses in the U.S. from heat are already around <u>\$100 billion annually</u>³ on average - a number that will surely increase in the future as the planet warms. Such economic losses are not just confined to outdoor industries either. Air conditioning is often too costly or impractical to implement widely in other sectors like manufacturing and warehousing. Heat poses direct risk to infrastructure as well, causing roadways and train tracks to buckle and fail in extreme cases, leading to transportation delays and supply chain disruption.

Read more on the role of climate change on heatwaves, liability implications and three ways to start addressing this risk in our <u>full article</u>.

² Exploring 167 years of vulnerability: An examination of extreme heat events in Australia 1844-2010 - ScienceDirect

Weather Related Fatality and Injury Statistics - National Weather Service

³ Extreme Heat – Atlantic Council

Appendix: 2023 Data

United States

| 01/01-09/30 | Drought | United States | N/A | 3,300 |
|-------------|-------------------------|---------------------------------|-----|-------|
| 01/04-01/10 | Flooding | California | 0 | 1,450 |
| 01/07 | Severe Convective Storm | Texas | 0 | 80 |
| 01/11-01/16 | Flooding | California | 0 | 610 |
| 01/12 | Severe Convective Storm | Alabama, Georgia | 11 | 765 |
| 01/17-01/19 | Flooding | California | 0 | 225 |
| 01/23 | Winter Weather | Northeast | 0 | 25 |
| 01/24 | Severe Convective Storm | South | 0 | 255 |
| 01/31-02/02 | Winter Weather | South | 8 | 380 |
| 02/02-02/05 | Winter Weather | Northeast | 1 | 1,850 |
| 02/07-02/09 | Severe Convective Storm | Indiana, Kentucky, Ohio, Texas | 0 | 260 |
| 02/15-02/16 | Severe Convective Storm | Oklahoma, Texas | 0 | 250 |
| 02/21-02/22 | Winter Weather | California, Arizona, New Mexico | 0 | 400 |
| 02/21-02/23 | Winter Weather | Midwest, Northeast | 0 | 325 |
| 02/23-02/25 | Winter Weather | California | 0 | 325 |
| 02/26-02/28 | Severe Convective Storm | Southwest | 0 | 915 |
| 02/26-03/02 | Winter Weather | California | 0 | 175 |
| 03/01-03/03 | Severe Convective Storm | Southeast, Midwest | 13 | 6,150 |
| 03/09-03/12 | Flooding | California, Nevada | 2 | 250 |
| 03/13-03/15 | Winter Weather | Northeast | 0 | 215 |
| 03/13-03/15 | Winter Weather | California | 0 | 450 |
| 03/16-03/17 | Severe Convective Storm | Oklahoma, Texas | 0 | 825 |
| 03/21-03/23 | Severe Convective Storm | California | 5 | 500 |
| 03/23-03/28 | Severe Convective Storm | Southeast | 23 | 2,600 |
| 03/31-04/01 | Severe Convective Storm | Midwest, Plains, Southeast | 37 | 5,450 |
| 04/02-04/03 | Severe Convective Storm | Texas | 0 | 140 |
| 04/03-04/07 | Severe Convective Storm | Southwest, Southeast, Midwest | 5 | 2,800 |
| 04/12-04/14 | Flooding | Florida | 0 | 650 |
| 04/14-04/17 | Severe Convective Storm | Southeast, Midwest | 0 | 1,250 |
| 04/18-04/22 | Severe Convective Storm | Southwest, Midwest | 3 | 2,900 |
| 04/25-04/27 | Severe Convective Storm | Oklahoma, Florida, Texas | 0 | 1,250 |

| 04/28-04/30 | Severe Convective Storm | Southeast, Northeast | 0 | 1,150 |
|-------------|-------------------------|-------------------------------|-----|-------|
| 05/02-05/09 | Severe Convective Storm | Plains, Southeast, Midwest | 0 | 2,000 |
| 05/09-05/14 | Severe Convective Storm | Midwest, Plains | 1 | 3,600 |
| 05/17-05/20 | Severe Convective Storm | Texas | 0 | 1,750 |
| 05/22-05/26 | Severe Convective Storm | Texas, New Mexico, Colorado | 2 | 750 |
| 05/23-05/30 | Severe Convective Storm | West, Midwest | 0 | 135 |
| 05/31-06/04 | Severe Convective Storm | New Mexico, Oklahoma, Texas | 0 | 200 |
| 06/05-06/08 | Severe Convective Storm | Plains | 0 | 560 |
| 06/10-06/15 | Severe Convective Storm | South, Plains | 3 | 3,900 |
| 06/15-06/16 | Severe Convective Storm | Michigan, Ohio | 0 | 750 |
| 06/15-06/20 | Severe Convective Storm | Midwest, Southeast | 5 | 3,750 |
| 06/20-08/31 | Heatwave | South, Southeast | 147 | N/A |
| 06/21-06/26 | Severe Convective Storm | Plains, Southeast | 7 | 5,000 |
| 06/26-07/02 | Severe Convective Storm | Midwest, Plains, SE, NE | 1 | 1,650 |
| 07/03-07/08 | Severe Convective Storm | Plains | 0 | 750 |
| 07/05-07/10 | Severe Convective Storm | Midwest, Northeast | 0 | 625 |
| 07/09-07/11 | Flooding | Northeast | 0 | 90 |
| 07/10-07/13 | Flooding | Plains, Midwest | 0 | 1,800 |
| 07/14-07/18 | Flooding | Northeast | 5 | 60 |
| 07/14-07/19 | Severe Convective Storm | Plains, Midwest | 0 | 1,250 |
| 07/16-07/20 | Flooding | Midwest, Southeast | 0 | 60 |
| 07/19-07/20 | Severe Convective Storm | Colorado | 0 | 225 |
| 07/19-07/21 | Severe Convective Storm | Southeast | 1 | 1,750 |
| 07/26 | Severe Convective Storm | Arizona | 0 | 140 |
| 07/26-07/30 | Severe Convective Storm | Midwest, Northeast | 0 | 1,250 |
| 08/03-08/09 | Severe Convective Storm | Midwest, Northeast, Southeast | 3 | 1,300 |
| 08/08-08/17 | Wildfire | Hawaii | 97 | 6,000 |
| 08/10-08/15 | Severe Convective Storm | Nationwide | 1 | 1,500 |
| 08/17-08/22 | Hurricane Hilary | West, Southwest | 0 | 675 |
| 08/18-08/26 | Wildfire | Washington | 1 | 450 |
| 08/23-08/25 | Severe Convective Storm | Michigan, Ohio | 0 | 750 |
| 08/24-08/28 | Severe Convective Storm | Midwest, Northeast, Southeast | 5 | 100 |
| 08/27-08/31 | Hurricane Idalia | Southeast | 2 | 2,000 |
| 08/31-09/03 | Severe Convective Storm | Arizona, New Mexico | 0 | 300 |
| 09/07-09/13 | Flooding | Northeast | 0 | 550 |
| 09/08-09/09 | Severe Convective Storm | Texas | 0 | 100 |
| 09/12-09/14 | Severe Convective Storm | Arizona, Texas | 0 | 200 |

| 09/14-09/17 | Hurricane Lee | Northeast | 2 | 50 |
|-------------|-------------------------|-----------------------------------|---|-------|
| 09/21-09/25 | Severe Convective Storm | Plains, Midwest | 0 | 1,500 |
| 09/22-09/25 | Tropical Storm Ophelia | Northeast | 0 | 450 |
| 09/26-09/27 | Severe Convective Storm | Kentucky, Missouri | 2 | 500 |
| 09/28-09/29 | Flooding | New York, New Jersey, Connecticut | 0 | 100 |

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

| 02/02-02/05 | Winter Weather | Canada | 2 | 190 |
|-------------|-------------------------|-----------|-----|----------|
| 03/31-04/01 | Severe Convective Storm | Canada | 0 | 30 |
| 04/05-04/06 | Winter Weather | Canada | 0 | 345 |
| 05/01-06/30 | Alberta Wildfires | Canada | 0 | 300 |
| 05/01-09/30 | Flooding | Guatemala | 47 | 10 |
| 05/28-06/04 | Tantallon Wildfire | Canada | 0 | 275 |
| 05/28-06/13 | Wildfire | Canada | 0 | 40 |
| 06/02-06/04 | Flooding | Haiti | 51 | Millions |
| 06/08-06/10 | Flooding | Cuba | 6 | Millions |
| 06/15-07/31 | Heatwave | Mexico | 249 | N/A |
| 06/18-06/20 | Flooding | Canada | 0 | 45 |
| 06/25-06/26 | Severe Convective Storm | Canada | 0 | 35 |
| 07/01 | Severe Convective Storm | Canada | 0 | 85 |
| 07/09-07/11 | Flooding | Canada | 0 | 35 |
| 07/10-07/13 | SCS & Flooding | Canada | 0 | 255 |
| 07/15 | Severe Convective Storm | Canada | 0 | 120 |
| 07/17-07/19 | Severe Convective Storm | Canada | 0 | 35 |
| 07/19-07/21 | Severe Convective Storm | Canada | 0 | 100 |
| 07/21-07/22 | Flooding | Canada | 3 | 200 |
| 07/24-07/26 | Severe Convective Storm | Canada | 0 | 50 |
| 07/26-07/30 | Severe Convective Storm | Canada | 0 | 60 |
| 08/03-08/09 | Severe Convective Storm | Canada | 0 | 125 |
| 08/10-08/15 | Flooding | Canada | 0 | 80 |
| 08/15-09/21 | Kelowna Wildfire | Canada | 0 | 530 |
| 08/18-09/30 | Bush Creek Wildfire | Canada | 0 | 255 |
| 08/23-08/25 | Severe Convective Storm | Canada | 1 | 130 |
| 08/24-08/28 | Severe Convective Storm | Canada | 0 | 170 |

South America

| | | | | Economic Loss (2023 \$ million) |
|-------------|------------|----------------------------|-----|------------------------------------|
| 01/01-01/12 | Flooding | Brazil | 10 | 140 |
| 01/01-03/31 | Drought | Brazil, Uruguay, Argentina | N/A | 10,100 |
| 01/01-04/15 | Flooding | Ecuador | 30 | 200 |
| 01/17-01/18 | Flooding | Brazil | 5 | 10 |
| 02/01-02/08 | Flooding | Brazil | 0 | 25 |
| 02/01-03/06 | Wildfire | Chile | 26 | 610 |
| 02/01-03/15 | Heatwave | Argentina | N/A | N/A |
| 02/05-02/08 | Flooding | Peru, Bolivia | 38 | Millions |
| 02/15-02/22 | Flooding | Brazil, Paraguay | 65 | 30 |
| 03/08-03/11 | Storm Yaku | Peru | 6 | 700 |
| 03/08-03/12 | Flooding | Brazil | 0 | 95 |
| 03/16-03/21 | Flooding | Brazil | 10 | 50 |
| 03/18 | Earthquake | Ecuador, Peru | 18 | 100 |
| 03/23-03/25 | Flooding | Brazil | 0 | 20 |
| 03/26 | Landslide | Ecuador | 65 | Millions |
| 04/10-04/14 | Flooding | Peru | 25 | 300 |
| 06/01-06/04 | Flooding | Ecuador | 0 | Millions |
| 06/15-06/16 | Flooding | Brazil | 16 | 205 |
| 06/23-06/28 | Flooding | Chile | 2 | 760 |
| 07/10-07/14 | Flooding | Brazil | 0 | 10 |
| 07/18 | Landslide | Colombia | 15 | Negligible |
| 08/17-08/29 | Flooding | Chile | 3 | 1,100 |
| 09/01-09/05 | Flooding | Brazil, Argentina | 49 | 605 |

Europe

| | | | Deaths | Economic Loss (2023 \$ million) |
|-------------|-------------------------|---------------------------------|--------|------------------------------------|
| 01/01 | Flooding | Spain, Portugal | 0 | 25 |
| 01/01-08/30 | Drought | Spain | N/A | 5,600 |
| 01/14-01/15 | Windstorm Frederic | Western Europe | 0 | 25 |
| 01/16 | Windstorm Gerard (Gero) | Western Europe | 0 | 105 |
| 01/16-01/17 | Windstorm Fien (Harto) | Western Europe | 1 | 65 |
| 02/01 | Windstorm Oleg | Germany, Czech Republic, Poland | 0 | 30 |
| 02/03-02/04 | Windstorm Pit | Central Europe | 0 | 55 |

| 00/04/00/05 | 14/2 1 14/ 11 | | | N 1 11 11 1 |
|-------------|-------------------------|------------------------------------|-----|--------------------|
| 02/04-02/05 | Winter Weather | Austria, Italy, Switzerland | 11 | Negligible |
| 02/17-02/18 | Windstorm Otto | Western, Northern & Central Europe | 3 | 75 |
| 03/08-03/13 | Windstorm Larisa | Western & Central Europe | 0 | 25 |
| 03/25-03/26 | Windstorm Khusru | France, Central Europe | 0 | 25 |
| 03/27-04/06 | Winter Weather | Austria | 0 | 55 |
| 03/29-04/15 | Wildfire | Spain | 0 | 160 |
| 03/31 | Windstorm Mathis | Western Europe | 2 | 170 |
| 04/12 | Windstorm Noa | Western Europe | 0 | Millions |
| 04/27 | Landslide | Norway | 0 | 85 |
| 04/29 | Severe Convective Storm | Spain | 0 | 65 |
| 05/01-06/15 | Severe Convective Storm | Spain | 0 | 120 |
| 05/01-08/10 | Wildfire | Italy | 0 | 50 |
| 05/01-08/10 | Wildfire | Portugal | 0 | 10 |
| 05/05-05/07 | Severe Convective Storm | Central Europe | 0 | 65 |
| 05/13-05/17 | Flooding | Central & Eastern Europe | 0 | 25 |
| 05/13-05/17 | Flooding | Italy | 15 | 9,700 |
| 05/22-05/23 | Flooding | Western & Central Europe | 0 | 60 |
| 06/08-06/12 | Severe Convective Storm | Western, Central & Southern Europe | 2 | 25 |
| 06/14-06/17 | Flooding | Southern & Southeastern Europe | 2 | 65 |
| 06/16 | Earthquake | France | 0 | 440 |
| 06/18-06/22 | Severe Convective Storm | Western & Central Europe | 1 | 1,340 |
| 06/23-06/26 | Severe Convective Storm | Central & Southeastern Europe | 3 | 50 |
| 07/01-07/31 | Wildfire | Greece | 0 | 1,780 |
| 07/05 | Windstorm Poly | Western & Central Europe | 2 | 70 |
| 07/06-07/13 | Severe Convective Storm | Western & Central Europe | 0 | 315 |
| 07/18-07/25 | Severe Convective Storm | Italy, Europe | 14 | 4,300 |
| 07/29-07/30 | Severe Convective Storm | Central & Southern Europe | 0 | Millions |
| 08/01-08/24 | Heatwave | Southern Europe | N/A | N/A |
| 08/03-08/08 | Flooding | Slovenia, Austria | 7 | 2,750 |
| 08/04-08/08 | Severe Convective Storm | Central & Eastern Europe | 0 | 65 |
| 08/06-08/08 | Flooding | Norway, Sweden | 0 | 350 |
| 08/12-08/17 | Severe Convective Storm | Central Europe | 0 | 760 |
| 08/14 | Wildfire | France | 0 | Millions |
| 08/15-08/18 | Wildfire | Spain | 0 | 85 |
| 08/18-08/31 | Wildfire | Greece | 20 | Unknown |
| 08/24-08/26 | Severe Convective Storm | Central & Western Europe | 0 | 1,425 |
| 08/26-08/27 | Flooding | Norway | 0 | 20 |
| | - | - | | |

| 08/28-08/30 | SCS & Flooding | Central & Northern Europe | 0 | 160 |
|-------------|-------------------------|---------------------------|----|----------|
| 09/01-09/04 | Flooding | Spain | 3 | 365 |
| 09/04-09/07 | Flooding | Greece, Bulgaria | 21 | 2,290 |
| 09/10-09/13 | Severe Convective Storm | Western & Central Europe | 0 | Millions |
| 09/15-09/20 | Severe Convective Storm | Western & Northern Europe | 0 | 65 |

Middle East

| 01/18 | Earthquake | Iran | 0 | 50 |
|-------------|------------|---------------|--------|------------|
| 01/28 | Earthquake | Iran | 3 | 255 |
| 02/06-02/20 | Earthquake | Turkey, Syria | 59,272 | 91,700 |
| 03/15 | Flooding | Turkey | 17 | 25 |
| 03/24 | Earthquake | Iran | 0 | Millions |
| 06/29-06/30 | Dust Storm | Iran | 0 | Negligible |
| 07/09-07/10 | Flooding | Turkey | 3 | 45 |
| 07/30-08/05 | Heatwave | Iran | N/A | N/A |
| 09/20-09/22 | Dust Storm | Iran | 3 | Negligible |

Africa

| | | | Deaths | Economic Loss (2023 \$ million) |
|-------------|-------------------------|-----------------------|--------|------------------------------------|
| 01/01-04/30 | Flooding | Burundi | 14 | Unknown |
| 01/01-06/30 | Flooding | Ethiopia | 90 | Unknown |
| 01/17-01/28 | Cyclone Cheneso | Madagascar | 33 | 20 |
| 02/06-02/16 | Flooding | Southern Africa | 25 | 260 |
| 02/20-03/15 | Cyclone Freddy | Southern Africa | 1,434 | 660 |
| 03/22-03/25 | Flooding | Somalia | 22 | Unknown |
| 03/23-04/04 | Flooding | Kenya | 12 | Millions |
| 04/01-04/12 | Flooding | Central Africa | 21 | Unknown |
| 04/01-04/30 | Flooding | Angola | 54 | Millions |
| 04/02 | Landslide | DRC | 20 | Unknown |
| 04/24-05/19 | Flooding | Rwanda, Uganda, Kenya | 136 | 100 |
| 05/02-05/04 | Flooding & Landslides | DRC | 470 | 100 |
| 05/03-05/19 | Flooding | Uganda | 23 | Unknown |
| 05/06-05/10 | Severe Convective Storm | Sierra Leone | 15 | Unknown |
| 05/10 | Landslide | DRC | 10 | Negligible |

| 05/12-05/19 | Flooding | Somalia | 22 | Millions |
|-------------|------------|--------------|-------|----------|
| 06/14-06/19 | Flooding | South Africa | 2 | 100 |
| 07/15-07/31 | Wildfire | Algeria | 34 | Millions |
| 09/04-09/07 | Flooding | Libya | 4,333 | Billions |
| 09/08 | Earthquake | Могоссо | 2,946 | Billions |
| 09/17-09/19 | Flooding | Nigeria, DRC | 17 | Unknown |
| 09/23-09/26 | Flooding | South Africa | 11 | Millions |

Asia

| | | | | Economic Loss (2023 \$ million) |
|-------------|-------------------------|-----------------------|-------|------------------------------------|
| 01/01-09/30 | Drought | China | N/A | 2,700 |
| 01/01-02/25 | Flooding | Philippines | 55 | 20 |
| 01/05-01/09 | Winter Weather | India | 25 | Negligible |
| 01/10-01/28 | Winter Weather | Afghanistan | 166 | Negligible |
| 01/13-01/16 | Winter Weather | China | 0 | 40 |
| 01/17 | Winter Weather | China | 28 | Negligible |
| 02/01-02/28 | Winter Weather | China | 0 | 80 |
| 02/08 | Flooding | Indonesia | 0 | Millions |
| 03/06 | Landslide | Indonesia | 46 | Negligible |
| 03/11-03/14 | Winter Weather | China | 0 | 50 |
| 03/17-03/20 | Severe Convective Storm | India | 16 | 25 |
| 03/17-03/21 | Flooding | Pakistan | 10 | Negligible |
| 03/20-03/25 | Severe Convective Storm | China | 0 | 320 |
| 03/21 | Earthquake | Afghanistan, Pakistan | 19 | Millions |
| 03/24-04/06 | Flooding | Pakistan | 14 | Millions |
| 03/29-04/03 | Flooding | Indonesia | 2 | Millions |
| 04/01-04/30 | Severe Convective Storm | China | 5 | 235 |
| 04/01-04/30 | Flooding | China | 0 | 1,000 |
| 04/01-05/15 | Heatwave | Southeastern Asia | 13 | N/A |
| 04/01-06/30 | Heatwave | India | 166 | N/A |
| 04/01-09/30 | Flooding | India | 2,432 | 300 |
| 04/10-04/20 | Heatwave | Southeastern Asia | 13 | N/A |
| 04/16 | Severe Convective Storm | Cambodia | 0 | Millions |
| 04/21-04/24 | Severe Convective Storm | Southeastern Asia | 19 | Millions |
| 04/21-04/24 | Winter Weather | China | 0 | 200 |
| 04/27 | Flooding | Indonesia | 0 | 15 |

| 04.7.290302HeatwaveParksam </th |
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| 07/01-07/14 Flooding Japan 13 510 07-01/07/31 Flooding Nepal 23 Unknown 07/01-08/10 Flooding Vietnam 12 Millions |
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| 07/06-07/10 Severe Convective Storm China 5 195 |
| 07/09-07/18 Flooding South Korea 49 50 |
| 07/10-07/20 Heatwave China N/A N/A |
| 07/13-07/19 Typhoon Talim Philippines, Taiwan, Vietnam 3 370 |
| 07/22-07/24 Flooding Afghanistan 31 Unknown |
| 07/25-08/05 Heatwave South Korea 17 N/A |
| 07/26-08/01 Typhoon Doksuri Philippines, Taiwan, China, Vietnam 106 2,150 |
| 07/30 Severe Convective Storm Russia 10 Millions |
| 08/01-08/10 Flooding Southeastern Asia 13 Millions |

| 08/01-08/31 | Severe Convective Storm | China | 3 | 150 |
|-------------|--------------------------|----------------------------|----|-----------------|
| 08/02-08/10 | Typhoon Khanun | Eastern Asia | 6 | 455 |
| 08/03 | Landslide | Georgia | 18 | Negligible |
| 08/06 | Earthquake | China | 0 | 35 |
| 08/11-08/17 | Flooding | Russia | 3 | 70 |
| 08/13 | Landslide | Myanmar | 32 | Negligible |
| 08/14-08/16 | Typhoon Lan | Japan | 0 | 10s of millions |
| 08/26-09/03 | Typhoon Saola | Eastern Asia | 1 | 1,450 |
| 08/27 | Flooding | Tajikistan | 21 | Unknown |
| 09/02 | Severe Convective Storm | India | 12 | Unknown |
| 09/03-09/07 | Typhoon Haikui | Philippines, Taiwan, China | 3 | 750 |
| 09/08 | Flooding | Hong Kong | 0 | 100 |
| 09/08-09/09 | Tropical Storm Yun-yeung | Japan | 3 | 10s of millions |
| 09/19 | Severe Convective Storm | China | 10 | 100 |

Oceania

| | | | Deaths | |
|-------------|-------------------------|--------------------------|--------|-------|
| 01/27-02/02 | Flooding | New Zealand | 4 | 3,350 |
| 02/12-02/17 | Cyclone Gabrielle | New Zealand | 11 | 3,900 |
| 02/21-02/28 | Severe Convective Storm | New Zealand | 0 | 15 |
| 02/28-03/05 | Cyclones Judy, Kevin | Vanuatu, Solomon Islands | 0 | 50 |
| 05/09-05/12 | Flooding | New Zealand | 0 | 50 |
| 05/23-05/31 | Typhoon Mawar | Guam | 2 | 250 |
| 05/26 | Severe Convective Storm | Australia | 0 | 135 |

Additional Report Details

All financial loss totals are in US dollars (\$) unless noted otherwise.

DR = Drought, EQ = Earthquake, WS = EU Windstorm, FL = Flooding, SCS = Severe Convective Storm, WF = Wildfire, WW = Winter Weather, VL = Volcano, HW = Heatwave, LS = Landslide

TC = Tropical Cyclone, TS = Tropical Storm, TD = Tropical Depression, 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 determined based on various public media sources, including news websites, publications from insurance companies, financial institution press releases, and official government agencies. Economic loss totals are separate from any available insured loss estimates. An insured loss is the portion of the economic loss covered by public or private insurance entities. In rare instances, specific events may include modeled loss estimates determined from utilizing Impact Forecasting's suite of catastrophe model products.

Appendix includes all events that meet at least one of the following criteria to be classified as a natural disaster in Aon's Catastrophe Insight Database:

- Economic Loss: \$50 million
- Insured Loss: \$25 million
- Fatalities: 10
- Injured: 50
- Structures Damaged or Filed Claims: 2,000

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