



Global Catastrophe Recap

December 2018

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Executive Summary

- Significant hail damage in Sydney metro region leads to considerable insurance payouts
- Eruption of Anak Krakatau prompts destructive tsunami across Sunda Strait and least 437 fatalities
- Powerful winter storms incur damage across the Central and Southern United States

Australian insurers recorded the country's costliest event since 2015 as severe thunderstorms spawned significant hail damage across the Sydney metro region on December 20. Worst damage was noted in the city's northern suburbs. Preliminary claims data from the Insurance Council of Australia cited 81,194 claims filed with initial payouts at AUD674 million (USD485 million). This total was expected to rise as more claims are filed. The total economic damage cost was even higher.

Severe weather outbreaks were additionally noted in the United States. In early December, convective storm damage occurred across the Plains, Midwest and Southeast, while damaging mudslides hit parts of California. On December 18, Washington state recorded its strongest tornado since 1986. Both total economic and insured losses for the peril were in the hundreds of millions (USD).

Also worth noting, the state of Illinois set a single-day December record for tornadoes (27).

Indonesia endured another deadly catastrophe on December 22, when underwater landslides caused by an eruption of Anak Krakatau volcano resulted in a destructive tsunami, affecting the Sunda Strait coast. The number of fatalities reached 437; the fourth-deadliest global event of 2018. It is worth noting that three of the top four deadliest events of 2018 occurred in Indonesia. The Sunda Strait tsunami destroyed at least 2,750 homes. Economic losses were expected to reach well into the millions of dollars (USD).

Renewed volcanic activity was also noted on Mt. Etna in Sicily, Italy. However, notable losses were only caused by the associated earthquake on December 26, which affected the city of Catania and caused economic damage of approximately EUR100 million (USD115 million).

Winter storms affected the mainland United States. A significant outbreak was observed from December 7-10 across the southern parts of the country. Widespread damage was noted in an area from Texas to Virginia and total insured losses neared USD200 million. Severe winter weather also impacted the Central U.S. in late December. Convective storm damage and torrential rain caused additional losses.

Two notable tropical storms occurred in Asia: Tropical Storm Phethai affected the states of Andhra Pradesh and Odisha in India between December 17-19. Moisture from Tropical Depression 35 and the Northeast Monsoon combined to spawn torrential rainfall across parts of the central Philippines from December 28-31. At least 152 people were left dead or missing after landslides and flooding in the country.

Additional disasters in APAC region included flooding and storm events in Indonesia, Vietnam and Sri Lanka. China was hit by a winter weather outbreak at the end of December; total economic losses in the northeastern provinces reached CNY1.24 billion (USD180 million).

United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
11/29-12/02	Severe Weather	Midwest, Plains, West	0	25,000+	300+ million
12/07-12/10	Winter Weather	Plains, Southeast, Mid-Atlantic	4+	30,000+	240+ million
12/18-12/20	Severe Weather	Northwest	0	2,000+	100+ million
12/26-12/28	Winter Weather	Plains, Midwest, Southeast	0	Thousands	Millions

A multi-day stretch of inclement weather led to a series of low pressure areas tracking across much of the United States from November 29 to December 2, spawning notable damage in nearly a dozen states. At least one person was killed and dozens of others were injured. Impacts during the four-day period included mudslides in fire-stricken California, convective storm damage across the Plains, Midwest and Southeast, a single-day December record for tornadoes in Illinois (27), and isolated flooding. Total economic losses approached USD300 million, with insurers covering more than USD200 million.

A potent winter storm developed and tracked across the southern United States from December 7-10, leaving at least four people dead and many others injured. The inclement weather was marked by heavy snow, freezing rain, ice, heavy rain, flooding, and gusty winds. The most significant damage was noted in an area from Texas to Virginia as most impacts resulted due to fallen trees and power lines, flood inundation, and traffic accidents. Total economic damage was estimated at USD240 million.

A rare EF2 tornado touched down in the Seattle, Washington metro region on December 18 and led to notable damage. It was Washington's strongest tornado since 1986. High winds and flooding rains also impacted other parts of Washington and Oregon. Total economic damage was estimated at USD100 million.

A powerful winter storm spawned blizzard conditions across parts of the Central U.S. and severe thunderstorms in Texas and the Southeast from December 26-28. The inclement weather led to numerous road closures from Nebraska to the Dakotas as high winds and heavy snow made travel conditions extremely challenging. Convective storm damage was widely reported across parts of Texas, including around Dallas-Fort Worth, Austin, and Abilene. Torrential rains spawned isolated flooding across parts of the Southeast and Mid-Atlantic as well. Total economic and insured losses were estimated to reach well into the millions (USD).

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
12/17-12/20	Severe Weather	Canada	0	Hundreds	Millions

A series of strong Pacific storm systems impacted parts of Western Canada from December 17-20. The areas of low pressure brought winds gusting beyond 100 kph (65 mph) to coastal sections of British Columbia as more than 150,000 customers were without electricity around Vancouver and Victoria alone. The back-to-back nature of the storms additionally brought heavy rainfall that caused numerous rivers and streams to swell. Total economic damage was expected to reach into the millions (USD).

South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
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No significant natural disasters were recorded in South America during the month of December.

Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
12/26	Earthquake	Italy	0	Hundreds	115+ million

An extremely shallow, magnitude-4.8 earthquake struck the northern suburbs of Catania, Sicily in Italy on the southeastern slopes of Mount Etna on December 26, causing notable structural damage. The tremor occurred at a depth of approximately 1.0 kilometer (0.6 miles) and followed several days of elevated volcanic activity of Mt Etna, which resumed on December 23. Dozens of properties sustained heavy structural damage. According to initial assessments, economic damage was estimated to reach roughly EUR100 million (USD115 million).

Middle East

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
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No significant natural disasters were recorded in the Middle East during the month of December.

Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
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No significant natural disasters were recorded in Africa during the month of December.

Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
11/26-12/04	Flooding	Indonesia	13+	1,000+	Unknown
12/06-12/10	Severe Weather	Indonesia	9+	1,821+	Unknown
12/08-12/10	Flooding	Vietnam	14+	35,000+	Millions
12/17-12/19	Tropical Storm Phethai	India	1+	Thousands	100+ million
12/22	Sunda Strait Tsunami	Indonesia	437+	Thousands	250+ million
12/22-12/25	Flooding	Sri Lanka	2	439+	Millions
12/27-12/31	Winter Weather	China	0	1,400+	180+ million
12/28-12/31	TD 35W (Usman)	Philippines	152+	17,482+	200+ million
12/21-01/01	Landslide	Indonesia	32	30+	Unknown

Seasonal heavy rains led to widespread flooding and casualties across parts of Indonesia from November 26 to December 4. At least 13 people were left dead or missing on the islands of Java and Sumatra. The heavy rains caused flash flooding and landslides to sweep through the provincial regions of Central Java, West Java, North Sumatra, and Aceh. Roughly 1,000 homes and other structures sustained inundation. Further damage was incurred to local infrastructure and agriculture.

Destructive winds, possibly a tornado, impacted the city of Bogor, south of Jakarta in West Java, on December 6. Local government noted 1,821 homes damaged as a result, of which approximately 40 percent were damaged heavily. West Java, East Java, West Sumatra, Riau and Bali were also hit by excessive precipitation between December 6-10, which resulted in localized landslides and flash floods, inundating hundreds of homes and incurring infrastructural damage. At least nine people were killed.

Central Vietnam suffered significant flooding due to heavy monsoon rainfall between December 8-10, leaving at least 14 people dead or missing. The floods damaged or destroyed nearly 35,000 houses across the hardest-hit provinces of Quang Nam and Da Nang. Additional impacts to agricultural land and infrastructure were reported. Total economic losses were likely to reach into the millions of dollars (USD).

Tropical Storm Phethai affected the states of Andhra Pradesh and Odisha in India between December 17-19. One person was confirmed dead and seven others reported missing. Heavy rainfall and strong winds caused at least USD35 million in crop damage in Andhra Pradesh alone. The total economic loss, was expected to exceed USD100 million.

A deadly tsunami struck the western coast of Banten, Indonesia on December 22, leaving at least 437 people dead and nearly 14,000 others injured. Additionally, 40,000 people were displaced. The event was triggered by the eruption of the Anak Krakatau volcano and a series of underwater landslides. An initial assessment determined that more than 2,750 homes and hotel units had been destroyed, and hundreds of boats and other ships were also impacted. The total economic loss is expected to reach into millions of dollars (USD).

Heavy rain and strong winds triggered flash floods in the Northern Province, Sri Lanka between December 22-25, requiring the evacuation of at least 11,000 people from the affected districts of Mullaithivu, Kilinochchi, Mannar, Vavuniya and Jaffna. The flooding caused two deaths, affected more than 75,000 people and damaged or destroyed at least 439 houses.

A cold-front affected several provinces across China from December 27-31. Hubei, Sichuan, Guizhou, Jiangnan, Guangxi, Jiangxi, Zhejiang and Hunan received rain and snow with blizzards reported in parts of Hunan, Hubei, Jiangxi and Guizhou affecting nearly 1.8 million people. The inclement weather led to road closure across multiple highways disrupting road, rail and air traffic. Freezing of transmission cables impact power supply in some regions. More than 136,000 hectares (336,000 acres) of agricultural land, particularly passion fruit, oranges and several other vegetable crops, were affected. Additionally, heavy snow crushed several greenhouses and damaged or destroyed 1,400 houses. The estimated economic loss due to the cold snap was CNY1.24 billion (USD180 million).

Moisture from Tropical Depression 35 and the Northeast Monsoon combined to spawn torrential rainfall across parts of the central Philippines from December 28-31. At least 152 people were left dead or missing after landslides and flooding swept across multiple regions in Visayas and Bicol. According to governmental sources, 17,482 homes sustained damage and 1,916 of those were destroyed. Economic losses to the agricultural sector was listed at PHP1.9 billion (USD37 million) and to infrastructure at PHP3.5 billion (USD66 million).

A series of landslides struck parts of Indonesia on December 31-January 1, leading to at least 32 fatalities. Recent heavy seasonal rains in Sukabumi Regency made soils loose and oversaturated, which led to an increased risk of landslides during the last week of December 2018. As the primary landslide struck Cimapag Village, it buried 30 homes and 101 people inside.

Oceania (Australia, New Zealand, South Pacific Islands)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
12/10-12/16	Cyclone Owen	Australia	1+	Hundreds	Millions
12/20	Severe Weather	Australia	0	85,000+	600+ million

Tropical Cyclone Owen made its first landfall as a tropical low in Queensland on December 10. It subsequently re-intensified in the Gulf of Carpentaria and made landfall as a tropical cyclone near Kowanyama, Queensland on December 15. A new 24-hour rainfall record for December was set at Halifax which received 681 millimeters (26.8 inches) of rainfall in 24 hours. The passage of the storm caused one death and minor damage to crops, poultry and infrastructure. The economic loss from the event is expected to reach into the millions of dollars (USD).

Powerful thunderstorms swept across the greater Sydney metro region on December 20, leading to significant hail damage. Some of the worst damage was recorded in the northern suburbs after up to baseball-sized hail shattered windows, dented roofs, and downed tree branches. The Insurance Council of Australia declared an insurance catastrophe. Preliminary claims data from the Insurance Council of Australia cited 81,194 claims filed with initial payouts at AUD674 million (USD485 million). This total was expected to rise as more claims are filed. The total economic damage cost was even higher.

Appendix

Updated 2018 Data: January - November

United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-12/31	Drought	Nationwide	N/A	N/A	3.2+ billion
01/03-01/05	Winter Weather	Eastern & Central U.S.	22	60,000+	1.1+ billion
01/08-01/09	Flooding	California	21	6,500+	900+ million
01/14-01/17	Winter Weather	Plains, Midwest, Northeast, Southeast	16	10,000+	100+ million
01/21-01/24	Winter Weather	Plains, Midwest	10	10,000+	50+ million
02/03-02/07	Winter Weather	Plains, Midwest, Northeast	7	7,500+	50+ million
02/07-02/10	Winter Weather	Plains, Midwest, Northeast	5	5,000+	50+ million
02/19-02/22	Flooding	Plains, Midwest, Southeast	10	25,000+	400+ million
02/23-02/27	Severe Weather	Plains, Midwest, Southeast	5	15,000+	175+ million
03/01-03/03	Winter Weather	Northeast	9	325,000+	2.3+ billion
03/07-03/08	Winter Weather	Northeast	1	62,000+	525+ million
03/12-03/15	Winter Weather	Northeast	0	5,000+	75+ million
03/18-03/21	Severe Weather	Plains, Southeast, Northeast	0	102,500+	1.5+ billion
03/21-03/22	Flooding	California	0	Hundreds	Millions
04/03-04/04	Severe Weather	Plains, Midwest, Southeast	1	40,000+	335+ million
04/06-04/07	Severe Weather	Texas, Louisiana, Mississippi	0	80,000+	900+ million
04/07	Severe Weather	Idaho	0	12,500+	135+ million
04/13-04/17	Severe Weather	Plains, Midwest, Southeast, Northeast	4	115,000+	1.4+ billion
04/14-04/15	Flooding	Hawaii	0	5,000+	125+ million
04/17-04/18	Severe Weather	Rockies, Plains	0	20,000+	150+ million
04/22-04/23	Severe Weather	Southeast	0	5,000+	30+ million
04/28-05/05	Severe Weather	Plains, Midwest	0	125,000+	1.4+ billion
05/03-07/30	Volcano	Hawaii	0	1,000	500+ million
05/12-05/16	Severe Weather	Rockies, Plains, Midwest, Northeast	5	115,000+	1.45+ billion
05/19-05/20	Severe Weather	Plains, Midwest	0	30,000+	540+ million
05/28-06/01	Severe Weather	Rockies, Plains, Midwest, Mid-Atlantic	1	45,000+	600+ million
05/27-05/28	Flooding	Maryland	1	5,000+	100+ million
05/27-05/30	STS Alberto	Southeast, Midwest	5	10,000+	125+ million
06/03-06/07	Severe Weather	Plains, Midwest, Southeast	0	105,000+	1.3+ billion
06/11-06/13	Severe Weather	Rockies, Plains	0	60,000+	980+ million
06/13-06/14	Severe Weather	Northeast	0	5,000+	75+ million
06/17-06/21	Severe Weather	Rockies, Plains, Midwest	3	190,000+	2.3+ billion
06/19-06/21	Flooding	Texas	0	15,000+	225+ million
06/23-06/26	Severe Weather	Central/Eastern U.S.	0	20,000+	195+ million
06/27-06/29	Severe Weather	Plains, Midwest, Southeast	1	15,000+	150+ million
06/29-07/04	Severe Weather	Plains, Midwest	1	22,000+	250+ million
06/01-07/31	Wildfire	Western U.S.(Spring Creek Fire; CO).	1	10,000	500+ million
07/08-07/10	Severe Weather	Arizona	0	15,000+	200+ million

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
07/19-07/22	Severe Weather	Plains, Midwest, Southeast	18	90,000+	1.5+ billion
07/21-07/26	Flooding	Northeast, Mid-Atlantic, Southeast	1	30,000+	450+ million
07/22-07/24	Severe Weather	Colorado	0	12,500+	150+ million
07/26-07/29	Severe Weather	Rockies, Plains, Southwest	0	65,000+	890+ million
07/30-07/31	Severe Weather	Southwest	0	25,000	250+ million
07/24-08/31	Wildfire	California (Mendocino)	1	6,000+	350+ million
08/01-08/31	Wildfire	California (Carr)	8	12,000+	1.8+ billion
08/06-08/08	Severe Weather	Rockies, Plains	0	70,000+	1+ billion
08/11-08/15	Flooding	Northeast, Mid-Atlantic	0	15,000+	450+ million
08/14-08/16	Severe Weather	Oklahoma, Texas	0	5,000	50+ million
08/20	Flooding	Wisconsin	0	10,000+	350+ million
08/22-08/26	HU Lane	Hawaii	1	3,000	250+ million
08/27-08/29	Severe Weather	Midwest	0	35,000+	725+ million
09/04-09/09	TS Gordon	Southeast	2	15,000+	250+ million
09/12	HU Olivia	Hawaii	0	2,000	25+ million
09/14-09/19	HU Florence	Southeast, Mid-Atlantic	53	400,000+	15+ billion
09/20-09/21	Severe Weather	Midwest	0	13,000+	200+ million
09/21-09/24	Severe Weather	Plains, Southeast	2	13,000+	250+ million
09/24-09/26	Severe Weather	Midwest, Northeast	1	10,000+	250+ million
10/01-10/03	Flooding	Arizona, New Mexico, California	3	2,000	50+ million
10/02	Severe Weather	Northeast	0	5,000	50+ million
10/10-10/12	HU Michael	Southeast, Mid-Atlantic, Central America	45	350,000+	17+ billion
10/15-10/20	Flooding	Texas	2	20,000+	400+ million
10/31-11/01	Severe Weather	Plains, Southeast	2	10,000+	125+ million
11/05-11/06	Severe Weather	Southeast, Mid-Atlantic	1	10,000+	100+ million
11/08-11/21	Wildfire	California (Woolsey)	3	20,000+	5.75 billion
11/08-11/25	Wildfire	California (Camp)	88	40,000+	15+ billion
11/14-11/16	Winter Weather	Northeast, Mid-Atlantic, Midwest	10	30,000+	250+ million
11/25-11/27	Winter Weather	Plains, Midwest, Northeast	2	10,000+	75+ million
11/29-11/30	Flooding	California	0	5,000+	100+ million
11/30	Earthquake	Alaska	0	15,000+	100+ million
11/30-12/02	Severe Weather	Plains, Midwest, Southeast	1	15,000+	150+ million

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/11-01/14	Flooding	Canada	0	5,000+	90+ million
02/16	Earthquake	Mexico	0	18,000+	Millions
02/19-02/22	Flooding	Canada	0	Thousands	75+ million
04/04-04/05	Winter Weather	Canada	0	15,000+	115+ million
04/14-04/17	Winter Weather	Canada	0	15,000+	295+ million
04/26-05/17	Flooding	Canada	0	Hundreds	10s of Millions
05/04-05/05	Severe Weather	Canada	3	70,000+	720+ million
05/26-05/29	STS Alberto	Cuba	7	Thousands	Millions+
06/03	Volcano	Guatemala	122	Thousands	Millions

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
06/13	Severe Weather	Canada	0	Unknown	10s of Millions
06/14	Severe Weather	Canada	0	10,000+	110+ million
06/28-06/30	Severe Weather	Canada	0	Thousands	Millions
07/01-07/31	Drought	Central America	0	Unknown	200+ million
07/07-07/10	Severe Weather	Canada	0	4,000+	45+ million
07/09-07/11	HU Beryl (Remnants)	Puerto Rico, Hispaniola	0	2,000+	Millions
07/13-07/14	Severe Weather	Canada	0	Thousands	Millions
08/02	Severe Weather	Canada	0	15,000+	100+ million
08/07-08/08	Flooding	Canada	0	4,500+	150+ million
09/05-09/07	Flooding	Mexico	3	2,500+	53+ million
09/20-09/23	Flooding	Mexico	20	300,000+	100s of millions
09/21	Severe Weather	Canada	0	15,000+	325+ million
10/06-10/07	Flooding	Central America	15	Thousands	100+ million
10/07	Earthquake	Haiti	18	20,000+	Millions
10/23	HU Willa	Mexico	0	Hundreds	50+ million
10/23	TS Vicente	Mexico	14	Unknown	Millions
11/01-11/04	Severe Weather	Canada	0	Thousands	10s of Millions

South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/14	Earthquake	Peru	2	2,541+	Millions
01/29-02/08	Flooding	Bolivia, Argentina	7	Thousands	138+ million
02/09	Severe Weather	Argentina	0	Thousands	Millions
02/15-02/21	Flooding	Brazil	4	Thousands	10s of Millions
01/01-03/31	Drought	Uruguay	N/A	N/A	500+ million
01/01-03/31	Drought	Argentina	N/A	N/A	3.4+ billion
03/20-03/21	Flooding	Brazil	3	Thousands	43+ million
03/12-04/17	Severe Weather	Colombia	14	Unknown	Millions
06/12	Severe Weather	Brazil	2	2,630+	Millions
10/19-10/24	Flooding	Trinidad & Tobago	0	4,300+	10s of millions
11/10	Landslide	Brazil	10	Hundreds	Negligible
11/12	Severe Weather	Chile	0	Thousands	200+ million
11/24	Landslide	Ecuador	9	Dozens	Negligible

Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-01/04	WS Eleanor & Carmen	Western & Central Europe	7	400,000+	1.1+ billion
01/06-01/07	Severe Weather	Spain	0	Thousands	100+ million
01/08	Earthquake	Netherlands	0	3,000+	Millions
01/18	WS Friederike	Western & Central Europe	13	100,000+	2.5+ billion
01/20-02/01	Flooding	France	0	30,000+	372+ million
02/23-03/02	Winter Weather	Western, Central & Eastern EU	95	Thousands	1.6+ billion
03/09-03/14	WS Felix & Gisele	Portugal, Spain	0	Hundreds	10s of Millions

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
03/25-04/05	Flooding	Greece, Turkey, Bulgaria	15	Thousands	Millions
04/01-04/30	Flooding	Spain	0	Thousands	64+ million
04/10-04/13	Severe Weather	Germany	0	Hundreds	68+ million
04/29	Severe Weather	Germany, France, Belgium	0	Thousands	10s of Millions
05/01	Winter Weather	Spain	0	Hundreds	10s of Millions
05/07-05/25	Severe Weather	Spain	0	Thousands	175+ million
05/10-05/16	Severe Weather	Central Europe	0	Thousands	10s of Millions
05/20-05/24	Severe Weather	Western & Central Europe	0	20,000+	100+ million
05/25-06/01	Severe Weather	Western & Central Europe	1	30,000+	675+ million
06/03-06/05	Severe Weather	Western & Central Europe	0	Thousands	140+ million
06/08-06/13	Severe Weather	Central, Western & SE Europe	6	Thousands	320+ million
06/21	Severe Weather	Poland, Austria	0	4,400+	50+ million
06/28-06/29	Flooding	Romania, Bulgaria, Ukraine	3	2,000+	125+ million
05/01-08/31	Drought	Northern & Central Europe	0	Unknown	9.0+ billion
07/03-07/05	Severe Weather	France, Germany, Italy	0	Thousands	200+ million
07/08-07/25	Wildfire	Sweden	0	Unknown	102+ million
07/15	Severe Weather	France, Germany, Austria	0	Hundreds	10s of millions
07/15-07/22	Wildfire	Latvia	0	Hundreds	108+ million
07/18-07/19	Flooding	Poland, Slovakia	0	Hundreds	75+ million
07/23-07/24	Wildfire	Greece	99	1,657+	10s of millions
07/28	Severe Weather	Germany	0	Hundreds	Millions
08/20	Flooding	Italy	10	N/A	N/A
08/23-08/25	Severe Weather	Central Europe	0	Thousands	10s of Millions
09/19-09/22	WS Ali	Western & Northern Europe	2	Thousands	90+ million
09/23-09/24	WS Fabienne	Central Europe	1	Thousands	130+ million
09/24-09/27	WS Bronagh	Western & Northern Europe	2	Hundreds	10s of Millions
09/29	Severe Weather	Greece	2	2,000+	Millions
10/04-10/05	Flooding	Italy	3	Hundreds	200+ million
10/08-10/10	Flooding	Spain	13	5,500+	150+ million
10/11-10/11	Flooding	Italy	1	Hundreds	189+ million
10/12	WS Callum	United Kingdom	0	Hundreds	10s of millions
10/12-10/15	Flooding	Norway	0	500+	10s of millions
10/13-10/14	Ex-HU Leslie	Portugal, Spain	0	21,000+	120+ million
10/15-10/16	Flooding	France	15	35,000+	340+ million
10/17-10/21	Flooding	Spain	0	10,000+	100+ million
10/19-10/21	Severe Weather	Italy	0	Hundreds	Millions
10/23-10/24	Flooding	Russia	6	2,600+	10s of millions
10/28-11/04	Severe Weather	Italy, Austria	29	Thousands	5.0+ billion
11/15-11/20	Severe Weather	Spain	1	Hundreds	100+ million

Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-05/31	Drought	South Africa	N/A	N/A	1.2+ billion
01/03-01/04	Flooding	Democratic Republic of Congo	44	465	Millions

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/12-01/13	CY Ava	Madagascar	73	4,800+	10s of millions
01/14-01/21	Flooding	Burundi	0	2,000+	Millions
01/15-01/18	CY Berguitta	Mauritius, La Reunion	0	Thousands	10s of millions
01/16-01/22	Flooding	Mozambique	11	15,000+	Millions
02/07-02/09	Flooding	Malawi	16	2,000+	Unknown
02/22-03/07	Flooding	Angola, Malawi, Rwanda	8	6,500+	Millions
03/01-03/04	Flooding	Kenya	7	Thousands	Millions
03/01-03/11	Flooding	Rwanda	24	1,000+	22+ million
03/17-03/18	CY Eliakim	Madagascar	21	17,228+	Millions
03/22-03/23	Flooding	South Africa, Lesotho	19	Thousands	Millions
03/14-05/31	Flooding	Kenya	226	Thousands	350+ million
03/14-05/31	Flooding	Uganda	N/A	Thousands	150+ million
04/01-04/16	Flooding	Rwanda	10	300+	11+ million
04/01-05/31	Flooding	Somalia	5	Thousands	80+ million
04/14-04/16	Flooding	Tanzania	15	Hundreds	Unknown
04/14-04/17	Flooding	Ethiopia	2	Thousands	Millions
04/24	TS Fakir	Réunion	2	Hundreds	19+ million
04/25-04/27	Flooding	Rwanda	41	Hundreds	11+ million
05/19-05/21	TS Sagar	Somalia, Djibouti, Yemen	79	Thousands	10s of Millions
05/26	Flooding	Ethiopia	23	5,000+	Millions
06/02-06/03	Flooding	Rwanda	18	Hundreds	Millions
06/18-06/29	Flooding	Ivory Coast, Ghana, Nigeria	33	Thousands	Millions
07/13-07/16	Flooding	Nigeria	12	2,000+	Millions
07/15-08/23	Flooding	Sudan	23	8,900+	Millions
07/25-08/10	Flooding	Niger	22	18,140+	Millions
09/01-09/30	Flooding	Ghana	34	20,000+	Millions
09/01-09/30	Flooding	Nigeria	199	17,816+	275+ million
09/04	Landslide	Ethiopia	12	Unknown	Negligible
09/22	Flooding	Tunisia	5	2,500+	36+ million
10/11	Flooding	Uganda	51	Hundreds	Unknown

Middle East

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/19-01/20	Winter Weather	Lebanon	15	N/A	Negligible
02/16-02/18	Flooding	Turkey, Iran, Iraq, Lebanon	3	Hundreds	Millions
03/07	Earthquake	Iran	0	5,500+	Millions
03/24	Severe Weather	Turkey	0	Thousands	Millions
04/25-04/26	Flooding	Israel	11	Hundreds	Millions
05/23-05/27	TC Mekunu	Yemen, Oman, Saudi Arabia	31	5,000+	1.5+ billion
07/08	Landslide	Turkey	24	N/A	Unknown
07/22	Earthquake	Iran	0	1,000+	10s of Millions
08/26	Earthquake	Iran	2	2,600+	Millions
10/05-10/06	Flooding	Iran	9	2,650+	166+ million
10/14	Cyclone Luban	Yemen, Oman	24	Hundreds	1.0 billion

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
10/20	Flooding	Qatar	0	Hundreds	10s of Millions
10/26	Flooding	Jordan	21	Hundreds	Millions
11/09-11/10	Flooding	Jordan, Kuwait, Saudi Arabia, Iraq	44	Thousands	400+ million
11/22-11/23	Flooding	Iraq	21	300+	Unknown
11/25	Earthquake	Iran	0	15,000	10s of Millions

Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-01/02	TS Bolaven	Philippines	3	2,000	12 million
01/01-01/07	Winter Weather	India, Nepal	94	N/A	Negligible
01/02-01/05	Winter Weather	China	21	3,500+	854+ million
01/13-01/17	Flooding	Philippines	11	1,900+	Millions
01/21-01/25	Winter Weather	Japan	5	2,000	100+ million
01/23	Earthquake	Indonesia	1	12,000+	80+ million
01/24-01/29	Winter Weather	China	2	3,000+	1.45+ billion
02/05-02/06	Flooding	Indonesia	4	7,228+	200+ million
02/06	Earthquake	Taiwan	17	10,000	100+ million
02/12-02/14	TS Sanba	Philippines	0	2,000+	<10 million
02/16-02/28	Severe Weather	India	0	5,000+	47+ million
02/21-02/23	Flooding	Indonesia	20	20,000+	250+ millions
03/03	Severe Weather	China	14	59,000+	147+ million
03/15-03/18	Severe Weather	China	5	2,000+	50+ million
03/20-03/27	Flooding	Russia	2	2,000+	Millions+
03/29	Severe Weather	China	0	2000+	30+ million
04/02-04/18	Winter Weather	China	0	5,000+	3.4+ billion
04/11	Severe Weather	India	42	15,000+	100+ million
04/17	Severe Weather	India	18	10,000+	100+ million
04/19-04/25	Severe Weather	China	1	2,200+	91+ million
04/29-04/30	Severe Weather	Bangladesh	33	Unknown	Unknown
05/02-05/03	Severe Weather	India	143	Thousands	24+ million
05/06-05/09	Severe Weather	India	32	4,200+	50+ million
05/07-05/15	Flooding	Afghanistan, Pakistan	78	Thousands	Millions
05/07-05/14	Flooding	China	2	2,000+	31+ million
05/12-05/17	Severe Weather	China	2	2,000+	67+ Million
05/13-05/16	Severe Weather	India	95	Hundreds	Millions+
05/17-05/20	Flooding	India	6	2,422+	10+ Million
05/17-05/21	Flooding	Tajikistan	6	1,145+	Millions
05/20-06/20	Heatwave	Pakistan	180	N/A	N/A
05/28-05/29	Severe Weather	India	54	5,000+	25+ million
05/28	Earthquake	China	0	15,900+	29 million
05/05-07/31	Flooding	China	112	150,000+	1.75+ billion
06/01-08/20	Flooding	India	1,100	20,000+	700+ million
06/01-08/28	Flooding	India (Kerala)	324	40,000+	4.4 billion
06/01-06/06	Severe Weather	India	42	Hundreds	Millions

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
06/06-06/07	Severe Weather	China	2	800+	31+ Million
06/02-06/07	TS Ewiniar	Vietnam, China	15	5,500+	810+ Million
06/09-06/12	Severe Weather	China	0	Thousands	91+ Million
06/08-06/12	Severe Weather	India	61	10,000+	50+ million
06/05-06/14	Flooding	Bangladesh, Myanmar	26	5,000+	Unknown
06/12-06/21	Severe Weather	China	2	12,000+	317+ million
06/18	Earthquake	Japan	5	166,000+	3.25+ billion
06/23-06/27	Flooding	Vietnam	33	3,776 +	23+ million
06/28-07/05	Severe Weather	China	11	12,000+	278+ million
06/29-07/03	Severe Weather	China	5	8,000+	157+ million
07/02-07/03	TY Prapiroon	Japan, South Korea	4	7,500	125+ million
07/05-07/08	Flooding	Japan	246	65,000+	10+ billion
07/01-07/25	Heatwave	Japan, Korea, China	180+	N/A	Unknown
07/01-07/03	Flooding	Pakistan, India, Nepal	21	2,000	Millions
07/01-09/30	Flooding	China (Pearl River Delta), Vietnam	38(15)	50,000+	2.0+ (1.8+) billion
07/01-09/30	Flooding	China (north)	89	175,000+	5.75+ billion
07/07-07/11	Severe Weather	China	1	2,000+	33+ million
07/08-07/25	Flooding	Russia	0	6,000+	16+ million
07/10-07/11	Flooding	China	19	18,300+	580+ million
07/10-07/12	STY Maria	China, Taiwan	2	15,000+	623+ million
07/13-07/20	Flooding	China	0	500+	53+ million
07/17-07/24	TS Sonh-Tinh	Vietnam, Laos, China, Philippines	170	20,000+	255+ million
07/17-07/31	Flooding	Philippines	16	5,050+	88+ million
07/17-07/26	Flooding	Laos, Cambodia	150	5,000+	Millions
07/22-07/25	TS Ampil	China	1	10,000+	240+ million
07/22-07/25	Severe Weather	China	6	15,000+	295+ million
07/27-08/03	TY Jongdari	Japan, China	0	5,000+	715+ Million
07/28	Earthquake	Indonesia	20	17,000+	29+ million
07/28-07/30	Flooding	Myanmar, Thailand	19	Thousands	Unknown
08/05, 08/09	Earthquake	Indonesia	560	105,000+	790+ million
08/03-08/08	Severe Weather	China	6	2,000+	40+ million
08/13	Earthquake	China	0	6,000+	50+ million
08/09-08/15	TS Yagi	Philippines, China	7	7,500	365+ million
08/13-08/19	TS Bebinca	China, Vietnam	16	12,000+	236+ million
08/16-08/18	TY Rumbia	China	53	40,000+	5.4+ billion
08/19	Earthquake	Indonesia	14	1,705	5+ million
08/19-08/23	Flooding	China	5	3,100+	33+ million
08/23-08/25	TY Soulik	Japan, Korea Peninsula, China, Russia	86	2,000+	81+ million
08/23-08/26	TY Cimaron	Japan	0	2,000	100 million
08/23-08/26	Flooding	Taiwan	7	5,000	34+ million
08/24	Flooding	Afghanistan	11	Hundreds	Millions
08/28-08/29	Flooding	South Korea	1	2,000	25+ million
08/29-09/07	Flooding	North Korea	150	12,000+	25+ million
09/03	Earthquake	China	0	2,630+	5.2+ million
09/04-09/05	TY Jebi	Japan	17	826,000+	13+ billion

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
09/06	Earthquake	Japan	44	36,000+	1.25+ billion
09/15-09/18	STY Mangkhut	N. Mariana Islands, Philippines, China, HK	161	300,000+	6+ billion
09/13-09/14	TS Barijat	China	0	3,500	7.5 million
09/28	Earthquake	Indonesia	2,256	100,000+	1.45+ billion
09/28-10/02	Typhoon Trami	Japan	4	355,000	4.5+ billion
10/06-10/12	Flooding	Sri Lanka	12	5,000+	25 million
10/06-10/07	Typhoon Kong-Rey	South Korea, Japan	4	7,500+	200 million
10/11-10/13	Cyclone Titli	India	85	75,000+	920+ million
10/12	Flooding	Indonesia	27	500+	Unknown
10/30	Typhoon Yutu	Philippines	18	10,000+	305+ million
11/02-11/11	Winter Weather	China	0	2,750+	2+ million
11/16-18	Cyclone Gaja	India	63	150,000+	775+ million
11/17-11/18	TD Toraji	Vietnam	19	5,000+	17+ million
11/25	TS Usagi	Vietnam, Philippines	2	10,000+	50+ million
01/01-10/31	Drought	China	0	N/A	3.55+ billion
01/01-12/31	Drought	India	0	N/A	3.65+ billion

Oceania (Australia, New Zealand, South Pacific Islands)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-08/01	Drought	Australia	N/A	Thousands	1.0+ billion
01/04-01/07	Severe Weather	New Zealand	0	4,200+	50+ million
01/31-02/02	Flooding (Fehi)	New Zealand	0	10,000+	67+ million
02/09-02/20	CY Gita	Tonga, Fiji, Samoa, New Zealand	1	10,000+	250+ million
02/18-02/20	TS Kelvin	Australia	0	4,000+	25+ million
02/26	Earthquake	Papua New Guinea	160	50,000+	190+ million
03/05-03/08	Earthquake	Papua New Guinea	36	Unknown	Millions
03/09-03/11	Flooding	Australia	0	2,000+	40+ million
03/17-03/19	Wildfire	Australia	0	1,050+	90+ million
03/17	CY Marcus	Australia	0	6,377+	75+ million
03/24-03/27	CY Nora	Australia	0	2,000+	25+ million
03/31	CY Josie	Fiji	6	Unknown	10+ million
04/10	CY Keni	Fiji	0	2,000+	50+ million
04/10-04/11	Severe Weather	New Zealand	0	13,000+	87+ million
04/27-04/29	Flooding	New Zealand	0	2,000+	25+ million
05/10-05/14	Flooding	Australia	0	8,800+	130+ million
06/11	Flooding	New Zealand	0	5,000+	25+ million
10/11	Severe Weather	Australia	0	7,500+	50+ million
11/28-11/29	Severe Weather	Australia	3	3,000+	25+ million

Additional Report Details

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

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

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