



Global Catastrophe Recap

November 2020

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Executive Summary

- Record-setting 2020 Atlantic Hurricane Season adds more landfalls in November – Eta & Iota
- Multiple late-season West Pacific typhoons leave nearly USD2 billion damage cost in the Philippines
- Cyclone Gati rapidly intensifies and strikes Somalia; the country’s strongest landfall on record



12

Record number of named storm landfalls in the U.S. during the 2020 Atlantic Hurricane Season



128
mm

Rainfall on November 23 in Bosaso, Somalia due to Cyclone Gati; more than twice the annual average



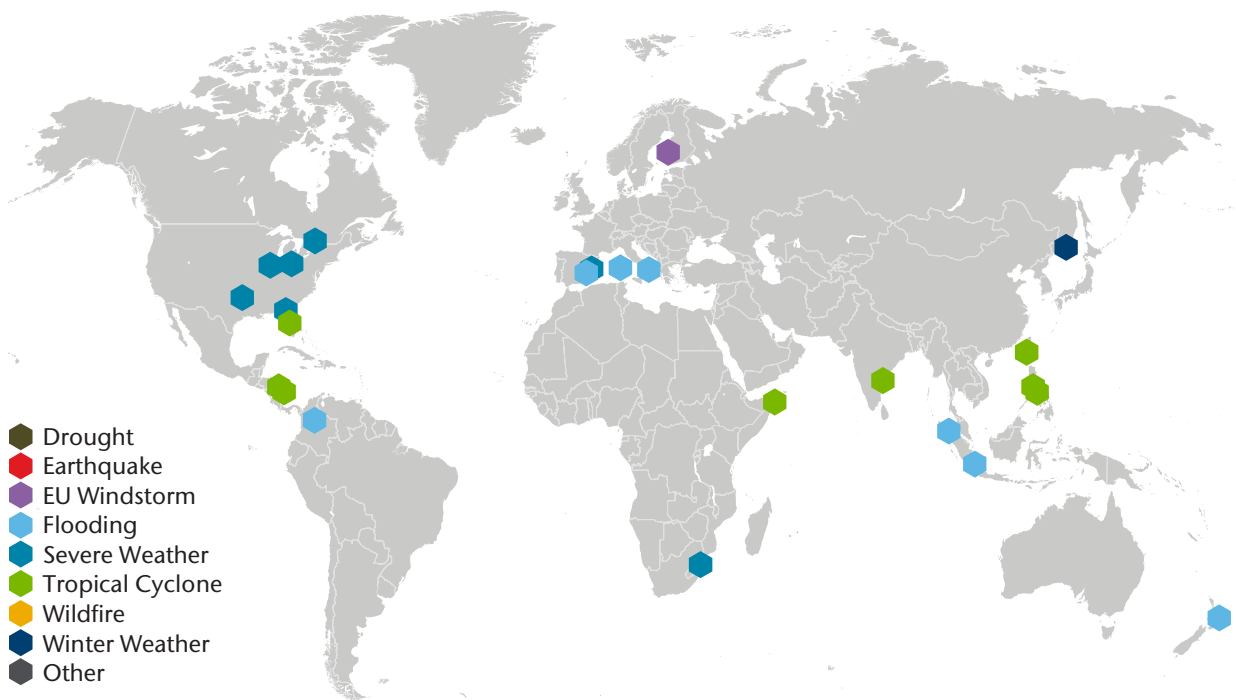
25.4C
77.7F

Warmest minimum temperature on record during the month of November in Sydney, Australia (Nov. 29)



I

Hurricane Iota became the Atlantic’s first Category 5 storm of 2020 & latest on record in a calendar year



United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
11/08-11/12	Hurricane Eta	Southeast	0	45,000+	1.1+ billion
11/10-11/12	Severe Weather	Midwest, Mid-Atlantic	11	25,000+	350+ million
11/15-11/16	Severe Weather	Midwest, Mid-Atlantic, Northeast	1	55,000+	575+ million
11/24-11/25	Severe Weather	Plains	0	Thousands	10s of Millions
11/29-12/01	Severe Weather	Southeast, Mid-Atlantic, Northeast	0	Thousands	100+ million

After first causing extensive damage in Central America as a powerful hurricane, Eta later made two landfalls in Florida as a tropical storm. The first occurred in the middle Florida Keys on November 8, with maximum sustained winds of 65 mph (100 kph), and the second on November 12, along the west-central Florida coast, with maximum sustained winds of 50 mph (85 kph). The storm prompted locally heavy rainfall and flash flooding, storm surge, and tropical storm-force wind gusts across the state. Total economic losses were estimated at USD1.1 billion. Public and private insurers covered approximately half of the economic loss.

Severe thunderstorms impacted the Great Lakes on November 10, notably Illinois and Wisconsin. The storms produced straight-line winds exceeding 70 mph (110 kph), hail, and at least eight tornadoes in Illinois. As the system moved east on November 11-12, interactions between the frontal boundary and Tropical Storm Eta produced significant rainfall and flash flooding in North Carolina, Virginia, and Maryland. At least 11 fatalities were reported. Total economic losses were estimated at USD350 million. Roughly half was covered by insurance.

Synoptic winds and convective storms caused widespread damage across the Midwest and Northeast on November 15-16. The greatest impacts occurred in portions of Michigan, Ohio, Pennsylvania, Maryland, New York, New Jersey, and Connecticut after winds topping 70 mph (110 kph) toppled trees and powerlines onto residential and commercial properties. Total economic losses were estimated at USD575 million. Approximately three-quarters was covered by insurance.

Severe thunderstorms affected portions of Oklahoma, Texas, and Arkansas on November 24-25. In Texas, an EF2 tornado resulted in extensive impacts in south Arlington (Tarrant County). Multiple vehicles, residences, and businesses sustained damage, while several structures collapsed. Total economic and insured losses were estimated in the tens of millions (USD).

A broad storm system brought convective impacts from the Northeast to Florida from November 29 to December 1. Isolated tornadoes were cited in Florida, Pennsylvania, and Maryland; while straight-line winds left extensive damage in New England. Downed trees and powerlines caused most of the damage. Total economic and insured losses were each individually expected to top USD100 million.

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
11/03-11/07	Hurricane Eta	Central America	200+	200,000+	6.8+ billion
11/14-11/19	Hurricane Iota	Central America	61	110,000+	1.3+ billion
11/15-11/16	Severe Weather	Canada	0	5,000+	75+ million

Hurricane Eta rapidly intensified at a historic rate in the Caribbean Sea before making landfall in Nicaragua as a Category 4 storm on November 3 with maximum sustained winds of 140 mph (220 kph). Eta produced incessant rainfall and catastrophic wind, flood, and storm surge damage across vulnerable regions of Central America. The most extensive impacts and losses were incurred in Nicaragua, Honduras, and Guatemala. Eta subsequently made landfall in south central Cuba as a tropical storm on November 8, producing gusty winds and localized flooding. Total economic losses in Central America alone were estimated at nearly USD7 billion. Most of the losses were uninsured.

Hurricane Iota explosively intensified in the Caribbean Sea, becoming the first Category 5 hurricane of the 2020 Atlantic Season on November 16. Iota slightly weakened to a high-end Category 4 storm prior to making landfall in Nicaragua on November 16. The storm produced dangerous coastal and inland flooding in addition to high wind across Central America. Extensive impacts were experienced in Nicaragua and Honduras. Damage was compounded as many localities were still recovering from the impacts of Hurricane Eta. Total economic losses were expected to reach USD1.25 billion; most of which will be uninsured.

Damaging winds impacted portions of southern and central Ontario in Canada on November 15-16. Wind gusts topping 100 kph (65 mph) resulted in significant property and vegetation damage. Notable lakeshore flooding along the northern and eastern shores of Lake Erie was observed. Total economic and insured losses were each expected to reach into the tens of millions (USD).

South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
10/31-11/02	Flooding	Colombia	0	8,820+	25+ million
11/14-11/19	Hurricane Iota	Colombia	7	Thousands	100+ million
11/26	Flooding	Brazil	0	Hundreds	8.5+ million

Heavy rainfall in the Magdalena department of northern Colombia resulted in notable flooding on October 31-November 2, with El Retén and Fundación being the most affected. National Unit for Disaster Risk Management (UNGRD) confirmed that more than 8,820 homes were damaged, along with several thousands of hectares of agricultural land and at least 17 roads. Economic losses were expected to end up in the tens of millions USD.

Heavy rainfall and storm surge associated with the precursor to Hurricane Iota produced significant flooding in mainland Colombia from November 14-19. Catastrophic impacts were also experienced across the islands of San Andrés and Providencia, where government officials estimated that 80 percent of homes on Providencia were destroyed and 98 percent of all structures impacted to varying degrees. Seven deaths in Colombia were attributed to the cyclone. Total economic losses were anticipated to approach USD100 million.

Localized flash flooding affected São Carlos in Brazil's São Paulo state on November 26, following an episode of large hail and heavy rain that generated a 1-hour accumulation of 138 millimeters (5.4 inches). At least 130 businesses in the city's downtown were affected, experiencing notable property and content damage. Dozens of homes and vehicles were also affected. Preliminary economic losses were listed at BRL44 million (USD8.5 million).

Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
11/05-11/06	Flooding	Spain	0	Hundreds	200+ million
11/18-11/19	Windstorm Liisa	Finland	0	Hundreds	15+ million
11/21-11/22	Flooding	Italy	0	Hundreds	Millions
11/26-11/27	Severe Weather	Spain	0	Hundreds	45+ million
11/27-11/28	Flooding	Italy	3	Hundreds	10s of millions

Extremely intense rainfall hit the Valencian Community region in eastern Spain on November 5-6, causing notable flooding. The most affected were Ribera Alta and Ribera Baixa areas. The Valencian Association of Farmers (AVA) estimated agricultural losses at EUR62 million (USD73 million), likely even higher. Further damage was noted to rail and road infrastructure. The Spanish Insurance Consortium expected approximately 12,000 property claims and losses of EUR82 million (USD99 million). Overall economic losses were even higher.

A low-pressure system named Liisa swept through Finland on November 18-19. Central parts of the country were most affected. According to the Finnish Forestry Center, the storm felled approximately 0.2-0.4 million cubic meters of wood worth about EUR6-10 million (USD7-12 million), mostly in Ostrobothnia and Pirkanmaa regions. Further economic losses were initially reported due to downed trees onto properties. With further minor impacts in Sweden, total losses were expected to be in the tens of millions EUR.

Notable regional flooding ensued in the Calabria region of southern Italy on November 21-22 after an extremely intense rainfall spell, which released up to 450 millimeters (17.7 inches) of precipitation within a 48-hour period. The worst affected were the provinces of Crotona and Cosenza, particularly the city of Crotona. Hundreds of properties (businesses and homes) as well as swaths of agriculture were damaged.

An outbreak of severe weather caused by a cut-off low pressure system resulted in notable damage in parts of Spain on November 26-27. Hail, wind and flood damage was observed particularly in Valencian Community and Andalusia. Valencian farmers alone expected losses in excess of EUR35 million (USD42 million).

Notable flash flooding and debris flows affected several regions of the Italian island of Sardinia on November 27-28, following an episode of extremely intense rainfall, which peaked with 365 millimeters (14.4 inches). The worst situation ensued in Bitti of the Nuoro Province, which was overwhelmed by a raging torrent of mud and debris, killing three residents. Total losses were expected to reach into the tens of millions EUR.

Middle East

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
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There were no significant natural disasters in the Middle East in the month of November.

Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
11/17-11/21	Severe Weather	South Africa	10	Hundreds	Millions
11/22-11/23	Tropical Cyclone Gati	Somalia	8	4,000+	Millions

Severe thunderstorms resulted in notable damage in several South African regions from November 17-21. An EF3 tornado struck Mthaha in Eastern Cape and caused notable structural damage. The storms were accompanied by large hail, notably in the Msunduzi municipality (city of Pietermaritzburg), with dozens of property damage cases reported. Flash flooding continued on November 20-21 in KwaZulu-Natal, Free State, and Gauteng. The outbreak claimed at least 10 lives. Total economic and insured losses were estimated in the millions (USD).

Tropical Cyclone Gati came ashore near the Puntland's Cape Hafun in Somalia on November 22, with an estimated maximum wind speed of 165 kph (105 mph) – the strongest storm on record to strike the arid nation of Somalia. Gati produced heavy rainfall, hurricane-force winds, and destructive storm surge in northern parts of the country, causing at least eight casualties. Some areas recorded nearly double its annual rainfall in a matter of 48 hours. Thousands of homes and other structures were damaged. The economic toll was estimated in the millions (USD).

Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
11/01	Typhoon Goni	Philippines	25	250,000+	1.0+ billion
11/01-11/08	Flooding	Indonesia	0	8,000+	Unknown
11/01-11/07	Tropical Storm Atsani	Philippines, Taiwan	0	Hundreds	Millions
11/07-11/011	Tropical Storm Etau	Philippines, Vietnam	2	1,000+	Millions
11/11-11/16	Typhoon Vamco	Philippines, Vietnam	99	200,000+	1.0+ billion
11/17-11/19	Winter Weather	China, Russia	N/A	Hundreds	120+ million
11/23-12/02	Flooding	Indonesia	0	9,000+	Millions
11/25-11/27	Cyclone Nivar	India	14	Thousands	600+ million

Super Typhoon Goni became the strongest storm at landfall in recorded history. At its peak, Goni attained 1-minute average sustained winds of 315 kph (195 mph) – Category 5-equivalent storm on the Saffir-Simpson Scale – shortly before making landfall near Bato town in Catanduanes Province of the Philippines on November 1. At least 31 people were killed and nearly 400 others were injured. Approximately 250,000 homes and thousands of other structures were damaged or destroyed. A vast area of agricultural land was also affected. Economic losses to agriculture and infrastructure alone were estimated at PHP20 billion (USD415 million). The overall economic toll was expected to approach USD1 billion. Relatively minor additional damage was reported from Vietnam.

Torrential rains triggered flash floods and landslides in the Aceh and West Java provinces of Indonesia between November 1 through 8. At least 8,000 houses were damaged or destroyed.

Tropical Storm Atsani skirted the southern coast of Taiwan in early November, bringing torrential rains and gusty winds to the island. The heavy rain prompted landslides in some areas of Taiwan, while moisture from Atsani also led to flooding in parts of the Philippines. Total economic losses were estimated in the low-digit millions (USD).

Tropical Storm Etau made landfall in central Vietnam on November 10. At least two people were killed. Etau prompted significant heavy rainfall in the hardest-hit provinces of Quảng Nam, Bình Định, Khánh Hòa, and Phú Yên. Nearly 1,000 homes and other structures were damaged. Total economic losses were estimated in the tens of millions (USD).

Typhoon Vamco crossed the Philippines on November 11-12, before striking Vietnam on November 15. At least 200,000 homes were either damaged or destroyed in Philippines (190,000) and Vietnam (10,000). Most of the damage in the Philippines was due to extensive flooding, including in the greater Manila metro region. In addition, approximately 334,500 hectares (825,000 acres) of agricultural land was left inundated. At least 99 people were killed. Total economic losses were estimated to top PHP50 billion (USD1 billion) in the Philippines alone, including roughly PHP20 billion (USD415 million) to agriculture and infrastructure.

An extratropical cyclone brought heavy snowfall, rain and low temperatures to parts of Northern China on November 17-19, particularly Inner Mongolia, Jilin, Heilongjiang, and Shaanxi. As it tracked further northeast, extreme amounts of freezing rain impacted the Primorsky Krai of the Far East federal district of Russia, causing notable damage and disruption. At least 180,000 people living in 73 settlements were left without power and more than 250,000 residents were left without heating in freezing conditions. Total economic losses in China and Russia were estimated at USD120 million.

Heavy rains prompted flooding in North Sumatra and Central Java during late November into early December. As many as 9,000 homes and other structures were damaged or destroyed.

Tropical Cyclone Nivar made landfall near Puducherry, India on November 26. At least 14 people were killed. Widespread flood- and wind-related damage to thousands of residential houses, businesses, roads and other structures were noted. In addition, approximately 700,000 hectares (1.7 million acres) of agricultural land was also affected. The combined economic losses were listed at INR44 billion (USD600 million); most of which will be uninsured.

Oceania (Australia, New Zealand, South Pacific Islands)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
11/09-11/10	Flooding	New Zealand	0	Hundreds	Millions

Record-breaking rainfall in the city of Napier in Hawke’s Bay region of New Zealand on November 9-10 resulted in notable flooding in the area. Hundreds of properties were flooded, with 100 flagged as ‘uninhabitable’ by the authorities. At least 30 properties sustained significant damage. Additionally, hundreds of vehicles were affected. Total economic and insured losses were likely to each be in the millions (USD).

Appendix

Updated 2020 Data: January-October

United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-12/31	Drought	Nationwide	N/A	N/A	1.0+ billion
01/10-01/12	Severe Weather	Central & Eastern U.S.	12	115,000+	1.28+ billion
02/03-02/08	Severe Weather	Central & Eastern U.S.	5	135,000+	1.5+ billion
02/08-02/10	Severe Weather	West	0	15,000+	140+ million
02/10-02/17	Flooding	Southeast	0	Thousands	175+ million
02/25-02/27	Winter Weather	Midwest, Northeast	1	Thousands	75+ million
03/02-03/05	Severe Weather	Midwest, Southeast	25	55,000+	2.4+ billion
03/11-03/13	Severe Weather	Midwest, Southeast	0	Thousands	75+ million
03/17-03/20	Severe Weather	Plains, Midwest, Southeast, Northeast	0	30,000+	290+ million
03/18	Earthquake	Utah	0	Thousands	10s of millions
03/20	Flooding	Midwest	8	30,000+	290+ million
03/24-03/25	Severe Weather	Southeast	0	Thousands	90+ million
03/27-03/30	Severe Weather	Plains, Midwest, Southeast, Northeast	0	165,000+	2.9+ billion
03/31	Severe Weather	Southeast	0	10,000+	125+ million
03/31	Earthquake	Idaho	0	2,000+	20+ million
04/06-04/09	Severe Weather	Midwest, Plains, Southeast, Mid-Atlantic	0	270,000+	3.0+ billion
04/10-04/14	Severe Weather	Midwest, Plains, Southeast, Mid-Atlantic	38	270,000+	3.45+ billion
04/18-04/20	Severe Weather	Midwest, Plains, Southeast	3	70,000+	800+ million
04/21-04/24	Severe Weather	Plains, Southeast, Mid-Atlantic	7	125,000+	1.45+ billion
04/24-04/26	Severe Weather	Midwest, Plains, Southeast, Mid-Atlantic	0	65,000+	850+ million
04/27-04/30	Severe Weather	Midwest, Plains, Southeast	0	112,500+	1.05+ billion
05/02-05/03	Severe Weather	Plains, Midwest, Southeast	2	68,000+	850+ million
05/04-05/05	Severe Weather	Plains, Midwest, Southeast	0	120,000+	1.5+ billion
05/05-05/20	Wildfire	Florida	0	500+	50+ million
05/07-05/08	Severe Weather	Plains, Southeast	0	17,000+	150+ million
05/13-05/15	Severe Weather	Plains, Midwest, Northeast	0	55,000+	530+ million
05/15	Earthquake	Nevada	0	Unknown	10+ million
05/16-05/21	Severe Weather & Floods	Plains, Midwest, Southeast	1	110,000+	2.1+ billion
05/20-05/24	Severe Weather	Rockies, Plains, Midwest	2	150,000+	1.8+ billion
05/24-05/27	Tropical Storm Bertha	Southeast, Mid-Atlantic	0	15,000+	200+ million
05/25-05/26	Severe Weather	Plains, Midwest, Southeast	0	15,000+	135+ million
05/27-05/28	Severe Weather	Texas	0	115,000+	1.45+ billion
05/30-05/31	Severe Weather	Northwest	0	Hundreds	10s of millions
06/02-06/04	Severe Weather	Plains, Midwest, Northeast	3	55,000+	800+ million
06/02-06/10	Tropical Storm Cristobal	Southeast	1	20,000+	325+ million
06/04	Severe Weather	South Dakota	0	27,500+	515+ million
06/05-06/11	Severe Weather	West, Rockies, Plains, Midwest	0	77,500+	800+ million
06/19-06/22	Severe Weather	Plains, Midwest, Southeast	0	35,000+	255+ million
06/26-06/27	Severe Weather	Plains, Midwest	0	10,000+	65+ million

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
07/02-07/10	Severe Weather	Rockies, Plains, Midwest	1	Thousands	150+ million
07/05-07/07	Severe Weather	Mid-Atlantic	1	17,500+	215+ million
07/10-07/12	Tropical Storm Fay	Northeast, Mid-Atlantic	6	15,000+	350+ million
07/10-07/12	Severe Weather	Rockies, Plains, Southeast, Midwest	0	100,000+	1.3+ billion
07/17-07/19	Severe Weather	Plains, Midwest, Northeast	0	14,000+	150+ million
07/20-07/23	Severe Weather	Plains, Midwest, Mid-Atlantic	0	7,500+	100+ million
07/25-07/27	Hurricane Hanna	Texas	0	45,000+	775+ million
07/26-07/26	Hurricane Douglas	Hawaii	0	Unknown	Negligible
07/30-08/05	Hurricane Isaias	Southeast, Mid-Atlantic, Northeast	15	340,000+	5+ billion
08/05	Severe Weather	Colorado	0	22,000+	260+ million
08/08-08/12	Severe Weather	Rockies, Plains, Midwest, Mid-Atlantic	4	500,000+	10+ billion
08/09	Earthquake	North Carolina	0	Hundreds	25+ million
08/13-08/17	Severe Weather	Plains, Midwest	0	40,000+	400+ million
08/13-10/29	Cameron Peak Fire	Colorado	0	1,350+	275+ million
08/16-10/05	Beachie Creek Fire	Oregon	4	12,000+	1.6+ billion
08/16-09/16	SCU Complex Fire	California	0	1,800+	190+ million
08/17-09/16	LNU Complex Fire	California	5	12,000+	3.0+ billion
08/17-09/22	CZU Complex Fire	California	1	12,000+	3.5+ billion
08/18-10/05	North Complex Fire	California	15	4,000+	450+ million
08/18-09/04	Carmel Fire	California	0	1,500+	270+ million
08/18	Severe Weather	Florida	0	2,000+	50+ million
08/21-08/25	Hurricane Marco	Florida, Southeast	0	Hundreds	Millions
08/21-08/29	Hurricane Laura	Plains, Southeast, Mid-Atlantic	33	400,000+	16+ billion
08/26-08/28	Severe Weather	Plains, Mid-Atlantic, Northeast	0	25,000+	205+ million
08/29-08/30	Severe Weather	Plains	0	10,000+	100+ million
09/04-10/05	Creek Fire	California	0	3,000+	600+ million
09/05-09/06	Severe Weather	Midwest	0	14,000+	165+ million
09/06-10/06	Bobcat Fire	California	0	3,500+	175+ million
09/06-09/14	Babb Fire	Washington	0	2,300+	175+ million
09/07-09/09	Severe Weather	West	1	35,000+	375+ million
09/07-10/03	Holiday Farm Fire	Oregon	1	4,500+	550+ million
09/07-09/16	Almeda Drive Fire	Oregon	3	5,500+	775+ million
09/08-10/03	Riverside Fire	Oregon	0	3,000+	160+ million
09/08-09/23	Echo Mountain Fire	Oregon	0	1,500+	175+ million
09/08-10/05	Slater Fire	California, Oregon	2	1,000+	90+ million
09/10-09/10	Flooding	Mid-Atlantic	0	2,000+	40+ million
09/14-09/18	Hurricane Sally	Southeast	8	230,000+	6.25+ billion
09/20-09/23	Tropical Storm Beta	Plains, Southeast	1	20,000+	400+ million
09/27-10/05	Glass Fire	California	0	8,000+	3.75+ billion
10/07-10/08	Severe Weather	Northeast	0	23,000+	235+ million
10/07-10/11	Hurricane Delta	Plains, Southeast	4	150,000+	4+ billion
10/14-10/29	East Troublesome Fire	Colorado	2	2,000+	650+ million
10/17-10/29	Calwood Fire	Colorado	0	1,250+	25+ million
10/24-10/30	Hurricane Zeta	Southeast	6	200,000+	3.75+ billion
10/25-10/28	Winter Weather	West, Plains	0	39,000+	425+ million

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/07-01/11	Earthquake	Puerto Rico	1	20,000+	1.45+ billion
01/11-01/12	Flooding	Canada	0	6,200+	180+ million
01/14-01/18	Winter Weather	Canada	0	Thousands	10s of millions
01/14-01/20	Winter Weather	Canada	0	Thousands	10s of millions
01/17-01/18	Winter Weather	Canada	0	Thousands	10s of millions
01/28	Earthquake	Cayman Islands, Jamaica, Cuba	0	2,250+	Millions
01/31-02/01	Flooding	Canada	0	2,000+	10s of millions
02/06-02/08	Winter Weather	Canada	0	2,000+	10s of millions
02/26-02/28	Winter Weather	Canada	1	Thousands	75+ million
02/28-02/29	Severe Weather	Honduras	3	Hundreds	Millions
04/13	Flooding	Canada	0	1,500+	25+ million
04/23-05/03	Flooding	Canada	0	1,500+	35+ million
04/26-04/30	Flooding	Canada	1	4,000+	885+ million
05/02	Earthquake	Puerto Rico	0	3,000+	150+ million
05/09	Severe Weather	Mexico	2	100+	Millions
05/31	Tropical Storm Amanda	El Salvador, Guatemala, Honduras	33+	3,400+	200+ million
06/02-06/08	Tropical Storm Cristobal	Mexico, Guatemala, El Salvador	1	10,000+	340+ million
06/13-06/14	Severe Weather	Canada	0	65,000+	1.4+ billion
06/23	Earthquake	Mexico	10	Thousands	75+ million
06/28-06/29	Severe Weather	Canada	0	2,000+	55+ million
07/08	Severe Weather	Canada	0	Thousands	10s of millions+
07/12	Severe Weather	Canada	0	Hundreds	25+ million
07/16	Severe Weather	Canada	0	1,000+	25+ million
07/19	Severe Weather	Canada	0	1,000+	30+ million
07/22-07/24	Severe Weather	Canada	0	12,500+	190+ million
07/25-07/27	Hurricane Hanna	Mexico	5	Thousands	100+ million
07/30-08/05	Hurricane Isaias	Caribbean, Canada	3	Thousands	225+ million
08/02-08/03	Severe Weather	Canada	0	5,000+	57+ million
08/19-08/20	Hurricane Genevieve	Mexico	2	Hundreds	50+ million
08/21-08/25	Hurricane Marco	Mexico, Costa Rica	1	Thousands	10s of millions
08/21-08/29	Hurricane Laura	Caribbean	35	Thousands	100+ million
09/02-09/04	Hurricane Nana	Central America	0	Thousands	20+ million
09/14-09/16	Hurricane Paulette	Bermuda	0	10,000+	50+ million
09/23-09/24	Hurricane Teddy	Canada	0	2,500+	35+ million
10/02-10/06	Tropical Storm Gamma	Mexico	7	Thousands	100+ million
10/07-10/11	Hurricane Delta	Mexico	2	15,000+	100s of Millions
10/10	Severe Weather	Canada	0	2,000+	38+ million
10/24-10/30	Hurricane Zeta	Jamaica, Mexico	2	Thousands	50+ million
10/29	Flooding	El Salvador	10	125+	Unknown

South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-12/31	Drought	Brazil	0	N/A	3+ billion
01/01-12/31	Drought	Paraguay	0	N/A	250+ million
01/17-01/29	Flooding	Brazil	70	Thousands	300+ million
02/08-02/29	Flooding	Bolivia	17	1,000+	10s of millions
02/09-02/10	Flooding	Brazil	4	4,000+	50+ million
02/11-02/19	Flooding	Argentina	1	1,000+	10s of millions
02/17-02/25	Flooding	Peru	4	2,400+	10s of millions
02/25-02/27	Flooding	Colombia	8	750+	Millions
03/01-03/03	Flooding	Brazil	70	Thousands	10s of millions
06/30	Severe Weather	Brazil	10	Thousands	100+ million
07/01-07/15	Flooding	Brazil	0	1,000+	10s of millions
07/01-07/15	Flooding	Colombia	11	6,000+	Millions
08/14-08/15	Severe Weather	Brazil	1	5,000+	16+ million
08/01-10/31	Wildfire	Argentina, Bolivia, Brazil, Paraguay	N/A	Unknown	100s of millions

Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/13	Windstorm Brendan	Ireland, United Kingdom	1	Thousands	10s of millions
01/19-01/23	Flooding	Spain	14	11,600+	300+ million
02/03-02/04	Windstorm Petra	Central Europe	3	12,500+	180+ million
02/09-02/10	Windstorm Ciara	Western & Central Europe	14	1.1+ million	2.7+ billion
02/15-02/16	Windstorm Dennis	Western & Northern Europe	6	Thousands	700+ million
02/23-02/24	Windstorm Yulia	Central Europe	0	Thousands	100+ million
02/27	Windstorm Bianca	Western & Central Europe	0	Thousands	10s of millions
02/29	Windstorm Jorge	Western Europe	0	Thousands	10s of millions
03/01	Windstorm Leon	France	0	Hundreds	Millions
03/02	Windstorm Karine	France, Spain	0	Hundreds	Millions
03/03	Windstorm Myriam	France, Spain	0	Thousands	10s of millions
03/12	Windstorm Laura	Denmark, Sweden, Germany, Poland	0	Thousands	10s of millions
03/22	Earthquake	Croatia	1	26,197+	Billions
03/23-04/02	Winter Weather	Central & Southern Europe	0	N/A	500+ million
04/01	Flooding	Spain	0	2,000+	15+ million
04/04-04/06	Flooding	Greece	0	Hundreds	Millions
04/15	Winter Weather	Austria	0	N/A	30+ million
04/17	Severe Weather	France	0	500+	Millions
05/09-05/11	Severe Weather	Western & Central Europe	0	Hundreds	10s of millions
05/29-05/30	Severe Weather	Ukraine & Belarus	0	Hundreds	Millions
06/07	Flooding	Central Europe	2	Thousands	10s of millions
06/10-06/26	Flooding	Romania	3	3,100+	85+ million
06/11	Flooding	France	0	Hundreds	Millions
06/13-06/15	Severe Weather	Central Europe	1	20,000+	10s of millions
06/21-06/23	Flooding	Ukraine, Central Europe	4	22,000+	480+ million
06/22-06/23	Flooding	Serbia, Bosnia & Herzegovina	0	1,800+	43+ million

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
06/26-06/29	Flooding	Central Europe	0	Thousands	200+ million
06/30	Severe Weather	Finland	0	Hundreds	Millions
07/06	Wildfire	Ukraine	5	100+	144+ million
07/14	Severe Weather	Spain	0	Thousands	35+ million
07/14-07/15	Severe Weather	Russia	0	1,500+	Millions
07/15	Flooding	Italy	2	500+	Millions
07/28-07/29	Severe Weather	Central Europe	0	Thousands	80+ million
08/04-08/05	Severe Weather	Central Europe	0	Thousands	100+ million
08/08-08/09	Flooding	Greece	8	3,000+	Millions
08/09-08/12	Severe Weather	Central Europe	0	Hundreds	Millions
08/11	Severe Weather	Spain	0	Thousands	Millions
08/19-08/20	Windstorm Ellen	Ireland, United Kingdom	0	Hundreds	Millions
08/22-08/23	Severe Weather	Italy, Austria	0	Hundreds	Millions
08/25-08/26	Windstorm Francis	Western & Central Europe	0	Hundreds	Millions
08/29-08/30	Severe Weather	Italy, Central Europe	4	Thousands	100+ million
09/15-09/20	Storm Ianos	Greece	4	Thousands	200+ million
09/17	Windstorm Aila	Finland, Estonia	0	Hundreds	25+ million
09/18-09/19	Subtropical Storm Alpha	Portugal, Spain	1	Hundreds	Millions
09/19	Flooding	France	0	1,000+	30+ million
09/21-09/24	Ex-Hurricane Sally	Norway	0	1,000+	10+ million
09/25-09/27	Severe Weather	Italy	0	Thousands	10s of millions
09/26-09/27	Windstorm Odette	Belgium	0	13,000+	35+ million
09/30-10/08	Wildfire	Ukraine	11	Hundreds	10s of millions
10/01-10/02	Windstorm Alex	France	0	Thousands	10s of millions
10/02-10/04	Flooding	France, Italy	16	Thousands	3.2+ billion
10/03-10/05	Severe Weather	Poland, Czech Republic, Austria	2	Hundreds	Millions
10/12-10/14	Flooding	Central Europe	1	4,000+	25+ million
10/19-10/21	Windstorm Barbara	France, Spain, Portugal	1	Thousands	50+ million
10/30	Earthquake	Greece	2	350+	Millions
10/31-11/01	Windstorm Aiden	Ireland, United Kingdom	0	Hundreds	Millions

Middle East

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/04-01/09	Flooding	Israel	7	45,000+	580+ million
01/09-01/20	Flooding	Iran	4	20,000+	808+ million
01/24	Earthquake	Turkey	41	23,000+	80+ million
02/04-02/05	Winter Weather	Turkey	41	Unknown	Unknown
02/23	Earthquake	Turkey, Iran	14	6,000+	Millions
02/24-04/30	Flooding	Iran	23	10,000+	1.2+ billion*
03/12-03/13	Flooding	Egypt	40	Thousands	76+ million
03/18	Flooding	Iraq	8	1,000+	Millions
03/25	Flooding	Yemen	2	2,000+	10+ million
04/15-04/30	Flooding	Yemen	14	Hundreds	Unknown
05/27-05/31	Flooding	Oman	3	Hundreds	Millions

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
06/03-06/04	Flooding	Yemen	16	Hundreds	Unknown
06/14	Earthquake	Turkey	1	2,200+	Millions
06/21-06/23	Flooding	Turkey	7	1,500+	30+ million
07/22-07/25	Flooding	Yemen	17	100+	Unknown
08/02-08/07	Flooding	Yemen	174	Hundreds	Millions
08/22-08/23	Flooding	Turkey	16	690+	200+ million
09/01-10/15	Wildfire	Syria	3	Hundreds	Unknown
09/29	Severe Weather	Turkey	0	Hundreds	Millions
10/19	Severe Weather	Turkey	1	3,000+	125+ million
10/30	Earthquake	Turkey	117	26,000+	400+ million

*Free market conversion rate; Unofficial local exchange (USD325 million)

Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-01/31	Flooding	Madagascar, Mozambique	60	25,800+	Millions
01/28-02/03	Flooding	Tanzania	40	3,000+	Millions
01/28-02/13	Flooding	Burundi	3	5,000+	Millions
01/01-03/31	Flooding	Rwanda	60	Thousands	Millions
01/01-03/31	Flooding	Rwanda	60	1,000+	Millions
03/10-03/17	Flooding	Tanzania	0	3,500+	Unknown
03/13-03/17	Cyclone Herold	Madagascar	4	1,000+	Unknown
03/14-03/18	Flooding	Democratic Republic of the Congo	0	5,000+	Millions
03/16-03/22	Severe Weather	Burundi	2	1,000+	Millions
03/17-03/22	Flooding	Zambia	0	2,200+	Unknown
03/24-05/31	Flooding	Kenya	237	15,000+	Millions
04/13-04/19	Flooding	Burundi	0	6,000+	Millions
04/16-04/17	Flooding	Democratic Republic of the Congo	52	18,500+	Millions
04/17-04/25	Flooding	Rwanda	16	750+	Unknown
04/18	Flooding	Angola	24	2,000+	Millions
04/20-04/21	Flooding	Djibouti	8	Thousands	Millions
04/20-04/28	Flooding	Somalia	13	Hundreds	Unknown
05/01-05/07	Flooding	Rwanda	73	Hundreds	Unknown
05/09	Flooding	Ethiopia	12	Unknown	Negligible
05/28	Flooding	Ethiopia	10	Unknown	Negligible
06/15-07/20	Flooding	Somalia	4	Thousands	Unknown
06/18	Flooding	Ivory Coast	17+	12+	Unknown
06/24-10/31	Flooding	Nigeria	155	75,000+	100+ million
07/01-09/3	Flooding	Niger	51	32,000+	Millions
07/01-08/31	Flooding	South Sudan	NA	Thousands	Millions
07/20-09/30	Flooding	Ethiopia	NA	Thousands	Millions
07/31-09/30	Flooding	Sudan	120	172,000+	250+ million
08/01-08/31	Flooding	Mali	0	2,000+	Unknown
08/01-08/31	Flooding	Chad	10	2,500+	Millions
08/01-08/31	Flooding	Kenya	0	1,000+	Unknown
08/25-08/31	Flooding	Uganda	8	Thousands	Unknown
09/01-09/15	Flooding	Mauritania	7	Hundreds	Unknown

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
09/01-10/13	Flooding	Togo	11	4,000+	Unknown
09/05	Flooding	Senegal	6	Thousands	18+ million
10/01-10/02	Flooding	Democratic Republic of Congo	15	Unknown	Unknown
10/01-10/31	Flooding	Mozambique	22	2,900+	Unknown
10/13-10/15	Flooding	Tanzania	12	Hundreds	Unknown
10/27	Severe Weather	Libya	0	Hundreds	Millions

Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-08/31	Drought	China	N/A	N/A	2.4+ billion
01/04-01/07	Winter Weather	China	0	5,000+	70+ million
01/05-01/09	Severe Weather	China	0	2,500+	35+ million
01/11-01/14	Winter Weather	Afghanistan, Pakistan, India	157	Thousands	Millions
01/12-01/15	Volcano	Philippines	0	3,813+	67+ million
01/19	Earthquake	China	1	8,000+	25+ million
01/23-01/28	Flooding	Indonesia	10	15,000+	Millions
01/23-01/26	Winter Weather	China	0	1,000+	239+ million
02/07-02/12	Flooding	Indonesia	0	4,000+	Millions
02/12-02/15	Severe Weather	China	1	Hundreds	16+ million
02/13-02/16	Winter Weather	China	0	Hundreds	30+ million
02/16-02/20	Flooding	Indonesia	6	20,000+	Millions
02/21-02/25	Flooding	Indonesia	10	35,000+	10s of millions
03/02-03/05	Severe Weather	Vietnam	3	7,187+	1.5+ million
03/04-03/13	Flooding	Pakistan	44	1,000+	Unknown
03/04-03/06	Flooding	Indonesia	2	8,000+	7.2+ million
03/13	Flooding	East Timor	3	2,000+	20+ million
03/20-03/21	Flooding	Indonesia	0	10,000+	Millions
03/21-03/25	Severe Weather	Vietnam	1	5,430+	4.1+ million
03/25-03/31	Flooding	Afghanistan	35	3,000+	Unknown
03/30	Flooding	China	8	Unknown	Millions
03/30-03/31	Flooding	Indonesia	1	11,900+	Millions
03/30-03/31	Wildfire	China	19	N/A	Negligible
04/01	Earthquake	China	1	3,400+	25+ million
04/01-04/30	Flooding	China	0	5,000+	285+ million
04/01-04/30	Severe Weather	China	0	10,000+	250+ million
04/04-04/05	Flooding	Indonesia	3	Hundreds	Unknown
04/09-04/16	Flooding	Indonesia	0	7,500+	Unknown
04/10-04/12	Flooding	Vietnam	0	716+	1.7+ million
04/13-04/14	Severe Weather	China	0	2,000+	15+ million
04/17-04/19	Severe Weather	China	0	7,500+	65+ million
04/19-04/22	Winter Weather	China	0	Unknown	475+ million
04/20-04/28	Flooding	Indonesia	3	2,500+	Millions
04/21-04/22	Severe Weather	China	0	Thousands	72+ million
04/22-04/27	Flooding	Vietnam	3	6,000+	Millions
04/27	Severe Weather	Uzbekistan, Turkmenistan	1	5,000+	Millions

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
04/29-05/09	Severe Weather	Thailand	2	10,100+	Millions
04/30	Flooding	Indonesia	0	22,000+	Millions
04/30-05/05	Flooding	Indonesia	3	25,000+	Millions
05/02-05/05	Flooding	Afghanistan	4	1,100+	Unknown
05/02-05/05	Flooding	China	0	Unknown	92+ million
05/03-05/05	Winter Weather	China	0	Unknown	70+ million
05/05-05/08	Flooding	Indonesia	7	916+	Unknown
05/07-05/10	Severe Weather	Vietnam	1	8,720+	Millions
05/10	Severe Weather	India	29	Unknown	Millions
05/14-05/15	Typhoon Vongfong	Philippines	0	20,000+	50+ million
05/15-05/19	Severe Weather	Vietnam	3	2,000+	Unknown
05/15-05/22	Cyclone Amphan	India, Bangladesh, Sri Lanka	118+	1.2+ million	13+ billion
05/15-05/31	Severe Weather	China	4	Unknown	71+ million
05/18-05/25	Flooding	Indonesia	0	4,000+	Millions
05/18	Earthquake	China	4	1,100+	17+ million
05/19-05/22	Flooding	China	7	Unknown	128+ million
05/25-05/26	Severe Weather	Russia	6	Thousands	Millions
06/01-08/31	Flooding	Bangladesh	257	1.3+ million	500+ million
06/01-09/30	Flooding	China	278	1.4+ million	32+ billion
06/01-09/30	Flooding	India	1,925	260,000+	6+ billion
06/01-09/30	Flooding	Nepal	402	15,000+	10s of Millions
06/03-06/04	Tropical Strom Nisarga	India	6	500,000+	660+ million
06/10-06/14	Tropical Storm Nuri	China, Philippines	0	Thousands	Unknown
06/11-06/13	Flooding	Indonesia	1	4,850+	2.1+ million
06/24-06/25	Severe Weather	India	127	Thousands	10s of millions
06/27-07/01	Flooding	Malaysia	0	Unknown	6.8+ million
07/01-08/14	Flooding	South Korea	42	14,100+	420+ million
07/01-09/30	Flooding	Pakistan	410	310,000+	1.5+ billion
07/02-07/04	Flooding	Mongolia	8	2,500+	1.7+ million
07/03-07/10	Flooding	Japan	82	20,000+	8.5+ billion
07/03-07/30	Flooding	Indonesia	109	21,600+	Millions
07/18-07/21	Flooding	Vietnam	5	3,000+	22+ million
07/19-07/30	Flooding	Myanmar	0	4,000+	Unknown
07/31-08/01	Flooding	Afghanistan	14	Hundreds	Unknown
08/01-08/03	Tropical Storm Sinlaku	Vietnam, Thailand	6	12,000+	Millions
08/03-08/04	Typhoon Hagupit	China, Taiwan	1	Thousands	1.5+ billion
08/04-08/10	Flooding	North Korea	22	17,000+	Millions
08/10-08/11	Tropical Storm Jangmi	South Korea, Japan	0	Thousands	Millions
08/11-08/12	Typhoon Mekkhala	China	0	Thousands	161+ million
08/18	Earthquake	Philippines	1	1,000+	Negligible
08/18-08/19	Tropical Strom Higos	China, Vietnam, Thailand	11	4,000+	142+ millions
08/21-08/24	Flooding	Vietnam, Thailand	9	5,000+	Millions
08/22-08/27	Typhoon Bavi	North Korea, South Korea, China	0	Hundreds	Millions
08/24-08/27	Flooding	Afghanistan	190	2,000+	Unknown
09/01-09/22	Flooding	Sri Lanka	6	1,000+	Unknown
09/03-09/04	Typhoon Maysak	Korean Peninsula, China	32	11,200+	100+ million
09/06-09/08	Typhoon Haishen	Japan, Korean Peninsula	4	10,000+	100+ million

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
09/11-09/30	Flooding	Indonesia	20	6,100+	Millions
09/17-09/21	Tropical Storm Noul	Vietnam, Laos, Cambodia, Thailand	18	25,000+	50+ million
10/01-10/26	Flooding	India	142	30,000+	4+ billion
10/04-10-25	Flooding	Vietnam	154	450,000+	850+ million
10/01-10/23	Flooding	Cambodia	43	162,000+	100+ million
10/13	Tropical Storm Nangka	China	2	Hundreds	14+ million
10/23	Typhoon Saudel	Philippines, China	0	Hundreds	15+ million
10/21-10/31	Flooding	Indonesia	13	2,000+	Unknown
10/25-10/28	Typhoon Molave	Philippines, Vietnam	83	310,000+	600+ million

Oceania (Australia, New Zealand, South Pacific Islands)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
11/08-01/17	Heatwave/Bushfire	Australia	34	23,362+	Billions
01/18-01/20	Severe Weather	Australia	0	129,201+	1.6+ billion
02/01-02/08	Flooding	New Zealand	0	1,100+	25+ million
02/07-02/11	Severe Weather	Australia	0	100,384+	1.0+ billion
02/25	Severe Weather	Australia	0	2,000+	Millions
03/21-03/24	Flooding	Papua New Guinea	12	1,000+	Unknown
04/04-04/07	Flooding	Papua New Guinea	0	1,000+	Millions
04/05-04/11	Cyclone Harold	Solomon Islands, Vanuatu, Fiji, Tonga	30	10,000+	100s of millions
04/10	Flooding	Papua New Guinea	10	Unknown	Negligible
04/19	Severe Weather	Australia	0	25,000+	600+ million
5/25	Severe Weather	Australia	0	Hundreds	Millions
06/26-06/27	Severe Weather	New Zealand	0	Hundreds	Millions
07/17-07/18	Flooding	New Zealand	0	Thousands	Millions
08/05-08/08	Severe Weather	Australia	0	2,000	Millions
10/04-10/10	Wildfire	New Zealand	0	Hundreds	10s of millions
10/31	Severe Weather	Australia	0	26,000+	290+ 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 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.

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