



Global Catastrophe Recap

August 2020

Table of Contents

Executive Summary	3
United States	4
Remainder of North America (Non-US)	6
South America	6
Europe	7
Middle East	8
Africa	8
Asia	9
Oceania (Australia, New Zealand, South Pacific Islands)	11
Appendix	12
Updated 2020 Data: January-July	12
Additional Report Details	18
Contact Information	19

Executive Summary

- Nine tropical cyclones make landfall around the globe in August; combined cost nears \$20B
- Derecho leaves extensive U.S. Midwest property & agribusiness damage; economic toll tops \$5B
- Major early season California wildfires destroy thousands of structures; insurance bill to exceed \$1B



10-14 million Estimated number of damaged crop acres in Iowa (U.S.) following a major August 10 derecho



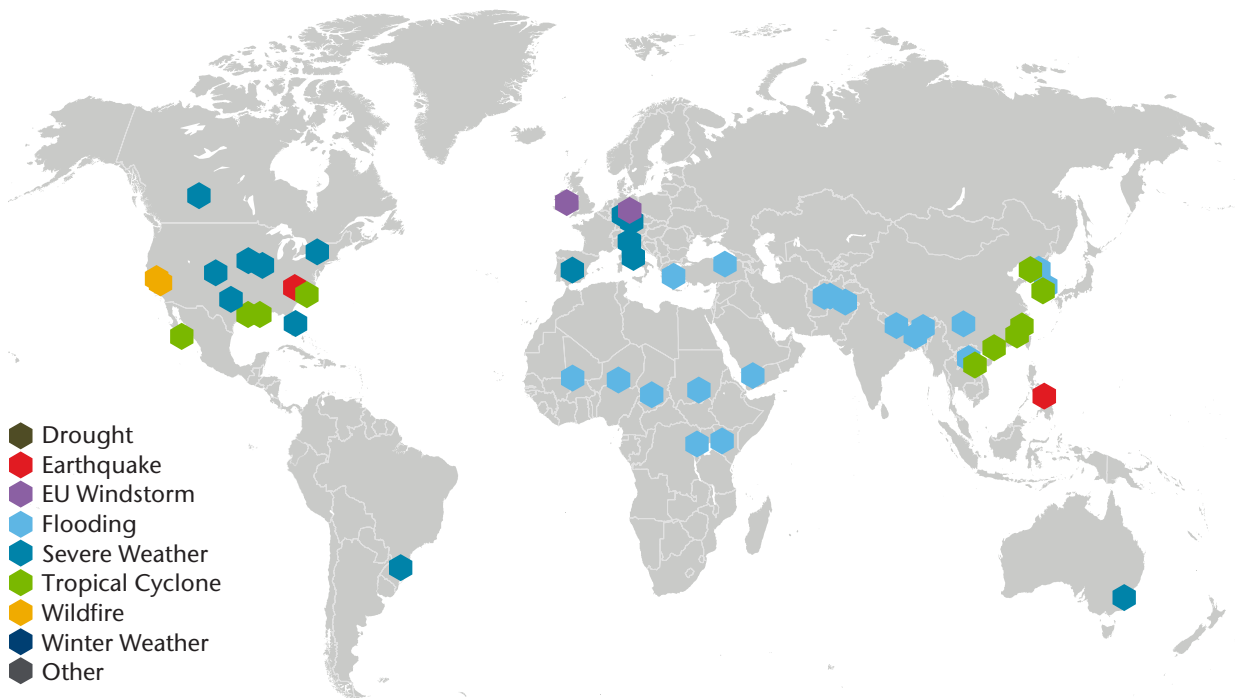
150 mph Landfall wind speed of Hurricane Laura; strongest tropical cyclone to strike Louisiana since 1856



9 Number of global tropical cyclones which made landfall during the month of August



130°F / 54.4°C Temperature in Death Valley, CA (USA) on August 16; hottest reliable measurement ever recorded on Earth



United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
08/02-08/04	Hurricane Isaias	Southeast, Mid-Atlantic, Northeast	15	340,000+	5.0+ billion
08/05-09/01	CZU Complex Fire	California	1	Thousands	100s of Millions+
08/05-09/01	LNU Complex Fire	California	5	Thousands	100s of Millions+
08/05-09/01	Carmel Fire	California	0	Thousands	100+ million
08/05-09/01	SCU Complex Fire	California	0	Thousands	100+ million
08/05	Severe Weather	Colorado	0	22,000+	260+ million
08/08-08/12	Severe Weather	Plains, Midwest, Mid-Atlantic	4	325,000+	6.5+ billion
08/09	Earthquake	North Carolina	0	Hundreds	Millions
08/13-08/17	Severe Weather	Plains, Midwest	0	40,000+	400+ million
08/18	Severe Weather	Florida	0	2,000+	50+ million
08/23-08/24	Hurricane Marco	Florida, Southeast	0	Hundreds	Millions
08/26-08/28	Severe Weather	Plains, Mid-Atlantic, Northeast	0	Thousands	100+ million
08/27-08/29	Hurricane Laura	Plains, Southeast, Mid-Atlantic	33	100,000+	10+ billion
08/29-08/30	Severe Weather	Plains	0	Thousands	100+ million

After first tracking through the Caribbean (details in the Americas (Non-U.S.) section), Hurricane Isaias made landfall as a strengthening Category 1 hurricane with 85 mph (140 kph) winds near Ocean Isle Beach, North Carolina. Hurricane-force wind gusts along with several feet (meters) of storm surge were cited along the eastern seaboard spanning from the Carolinas into New England. Isaias spawned at least 39 confirmed tornadoes, including a deadly EF3 in North Carolina. Flooding rains were common, particularly in the Mid-Atlantic states. At least 6.4 million homes and businesses lost power resulting from the storm. Total economic losses in the U.S. were estimated at USD5 billion, of which slightly more than half is expected to be insured.

Record heat, low humidity, and widespread dry lightning spawned nearly 1,000 fires in California during the month of August. At least eight fatalities occurred. Three of the Top 5 largest fires and two of the Top 10 most destructive fires in California's modern record were ignited. The LNU Lightning Complex Fire damaged or destroyed more than 1,700 structures in Sonoma, Lake, and Napa counties; the CZU Lightning Complex Fire damaged or destroyed nearly 1,600 structures in San Mateo and Santa Cruz counties; the SCU Lightning Complex Fire damaged or destroyed at least 205 structures; and the Carmel Fire damaged or destroyed at least 80 structures. In total, the fires since mid-August had charred more than 1.5 million acres (607,028 hectares) of land. Total combined economic and insured losses incurred by the fires were each expected to aggregate well beyond USD1.0 billion.

Severe storms produced damaging hail approaching 2.0 inches (5.1 centimeters) in diameter in parts of Colorado on August 5. Among the hardest-hit areas were near Colorado Springs (El Paso County) as hail damaged thousands of vehicles and properties. Total economic losses were at least USD260 million; most covered by insurance.

An active weather pattern resulted in several days of extensive severe weather across the eastern two-thirds of the United States from August 8-12. Most damage was incurred in parts of the Plains, Midwest, and the Mid-Atlantic. Impactful hail events occurred in the Black Hills of South Dakota on August 8 and the Minneapolis-Saint Paul metro region in Minnesota on August 9. The most catastrophic damage resulted from a derecho event that extensively impacted Iowa and Illinois on August 10, producing peak straight-line wind gusts of 140 mph (220 kph). Considerable impacts to property, vehicles, the electrical grid, and agribusiness (including 10 to 14 million crop acres) were observed. Flash flooding later affected the Mid-Atlantic on August 12. At least four people were killed. Total economic losses from August 8-12, including damage to residential and commercial properties, vehicles, infrastructure, and agriculture, were estimated at USD6.5 billion. Insurance was expected to cover more than half of the total. Preliminary direct economic costs associated with the derecho were minimally USD5 billion. Most wind and hail-related property damage was covered by standard policies, but a sizable portion of the crop loss will not be.

The southeastern United States was rattled by a magnitude-5.1 earthquake which struck near Sparta, North Carolina (Alleghany County) on August 9. Damage assessments near the epicenter indicated multiple homes with foundation and chimney damage, water main breaks, as well as cracked roads and parking lots. Total economic and insured losses were anticipated to be in the low-digit millions (USD).

Severe weather across the United States between August 13-17 led to damage in the central and northern Plains and the Upper Mississippi Valley. Hazards with this event included significant and damaging hail, isolated tornadoes, straight-line winds, and localized heavy rainfall. Total economic losses were anticipated to approach USD400 million, with at least USD300 million covered by insurance.

Converging sea breezes led to severe storms across eastern Florida on August 18, producing damaging straight-line winds, flooding rains, severe hail, and two confirmed tornadoes. The strongest tornado, an EF2, touched down near the Town of DeLand (Volusia County), resulting in multiple homes with moderate to major roof or structural damage. Total economic and insured losses were anticipated into the millions (USD).

Hurricane Marco made landfall as a minimal tropical storm near the mouth of the Mississippi River in eastern Louisiana on August 24. The greatest impacts, however, were felt across eastern Gulf Coast and the Florida Panhandle due to heavy rainfall and flooding. Damage was minimal and estimated in the low-digit millions (USD).

Multiple rounds of severe storms occurred across the Northern United States from August 26-28, spanning from the Plains to the Northeast. The main hazards associated with this event were large hail, severe straight-line winds, and isolated tornadoes. Portions of Connecticut and New York were particularly affected by damaging tornadoes and straight-line winds. Total economic and insured losses were each anticipated to exceed USD100 million.

Hurricane Laura made landfall as a high-end Category 4 storm near Cameron, Louisiana on August 27 with sustained over-water wind speeds of 150 mph (240 kph). At least 33 direct storm-related fatalities occurred. It came ashore at peak intensity after tying the record for the fastest intensification rate in the Gulf of Mexico during a 24-hour period. Laura also tied as the strongest hurricane to make landfall in Louisiana since 1856. Catastrophic impacts were incurred across swaths of the Louisiana, particularly in Cameron and Calcasieu Parishes – including the City of Lake Charles – due to wind gusts topping 100 mph (160 kph), storm surge, and inland flooding. Total economic losses were minimally listed at USD10 billion, but likely even higher. The portion covered by public and private insurance entities is also expected to result in a notable multi-billion-dollar payout.

Severe thunderstorms initiated across the southern Plains on August 29-30, with the greatest impacts occurring across the Texas Panhandle and Red River Valley. Large hail and damaging straight-line winds caused significant impacts in Texas, particularly north of Amarillo (Potter County). Total economic and insured losses were each anticipated to exceed USD100 million.

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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
07/28-08/01	Hurricane Isaias	Caribbean, Canada	3	Thousands	225+ million
08/02-08/03	Severe Weather	Canada	0	5,000+	57+ million
08/18-08/21	Hurricane Genevieve	Mexico	2	Hundreds	Millions
08/21-08/22	Hurricane Marco	Mexico, Costa Rica	1	Thousands	10s of millions
08/22-08/25	Hurricane Laura	Caribbean	35	Thousands	100+ million

Prior to striking the United States, Hurricane Isaias tracked through the Caribbean from July 28 to August 1. A broad northward extending wind field allowed impacts from Isaias to extend across much of the Caribbean, while the Dominican Republic, Puerto Rico, and the Bahamas were most affected. Isaias' remnants would later reach Canada. Heavy rainfall across the Dominican Republic and Puerto Rico produced significant localized flooding, resulting in extensive damage to homes and crops. Total economic losses across the Caribbean and Canada were aggregately expected to reach USD225 million. Most losses were uninsured.

Powerful thunderstorms swept across parts of Canada's Alberta and Saskatchewan provinces on August 2-3. Widespread large hail and straight-line wind damage was reported in areas near the Calgary and Edmonton metro regions. Total economic losses were estimated at nearly USD60 million. Most of those costs were covered by insurance. Also on August 2-3, a separate system spawned severe weather in southern Ontario and Quebec led to isolated tornado, straight-line wind, and flash flood damage. Total economic losses were in the millions (USD).

Hurricane Genevieve paralleled the western coastline of Mexico's Baja California peninsula as a Category 1 storm from August 19-21, producing hurricane-force wind gusts and flooding rains across portions of Baja California Sur. At least two fatalities were reported due to rough seas. Heavy rainfall produced a notable flooding event in the town of Cabo San Lucas. Total economic losses were expected to reach into the millions (USD).

Hurricane Marco's passage through Caribbean resulted in flood-related impacts in Mexico and Costa Rica. Several states in Mexico reported notable infrastructural damage, while one person was killed. Flooding also ensued in Costa Rica. Total economic losses were estimated into the millions (USD).

Hurricane Laura impacted multiple Caribbean countries prior to its U.S. landfall. Notable human toll was experienced in Haiti, where at least 31 people lost their lives. Significant material damage also occurred in Puerto Rico, the Dominican Republic, Cuba, and Jamaica. The total economic toll outside the U.S. was preliminarily estimated to exceed USD100 million.

South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
08/14-08/15	Severe Weather	Brazil	1	5,000+	16+ million

Severe thunderstorms impacted Brazil's Santa Catarina State on August 14-15 and spawned multiple confirmed tornadoes, strong winds, and large hail. Local authorities reported 5,000 homes damaged or destroyed, along with notable commercial losses. Economic losses were minimally listed by government officials at BRL87 million (USD16 million), though the final damage bill will likely be higher.

Europe

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

Heavy rainfall in the Alpine region and southern Bavaria resulted in increased water levels in parts of Germany and Austria on August 4-5. Streams locally burst their banks and caused localized property and infrastructural damage. Additional losses were noted in Italy, Croatia, and Hungary due to strong winds and large hail. Economic losses were initially expected to reach into the tens of millions EUR.

Severe localized flash flooding affected parts of central Evia (Euboea) island in Greece on August 8-9, causing at least eight fatalities. The most affected areas were Psachna, Politika, Bourtzi Vasilikou, and Lefkandi. According to media reports, 3,000 properties were flooded; there was also a notable impact on vehicles, infrastructure, and beaches. Total economic losses were expected to reach into the millions EUR.

An outbreak of severe weather caused minor losses in parts of Germany, Austria, and Poland on August 9-12. Worst affected were Ruhr region, Hessen and Bayern in Germany, Steiermark in Austria, and Lublin in Poland. Losses were expected to reach into the millions EUR.

Parts of Spain were affected by strong thunderstorms on August 11, with notable effects in agriculture. Castilla-La Mancha and Extremadura were the most affected; Agroseguro estimated that more than 24,000 hectares (59,000 acres) of agricultural land was affected nationwide.

Ireland and parts of the United Kingdom were hit by an unseasonably stormy episode on August 19-20, as a relatively deep low-pressure area tracked across the region. Met Éireann named the storm "Ellen". Formation of the storm was fueled by the remnants of Hurricane Kyle that dissipated in the North Atlantic days prior. The storm caused notable disruption and largely minor wind- and flood-related property damage across Ireland and western parts of the UK.

Violent storms caused significant damage in northern Italy on August 22-23. The outbreak, which included effects of large hail, heavy rain, and strong winds, mainly affected the Veneto region. The most affected provinces were Verona, Vicenza, Padua and Belluno. Further effects were felt in parts of Austria. Total economic losses, including effects on agriculture, were expected to reach into the millions EUR.

Parts of Western & Central Europe were affected by an unseasonably deep low-pressure area on August 25-26. Anticipated impacts prompted Met Éireann to name the storm "Francis"; the event was referred to as "Kirsten" in Germany. In Ireland, heavy rain resulted in a renewed spell of flooding, particularly in Cork County. Dozens of residents had to be rescued and hundreds of homes were flooded in the United Kingdom, notably in Newcastle. Disruption and minor property damage was reported from parts of Germany, notably in Nordrhein-Westfalen.

Violent storms affected parts of Italy and Central Europe on August 29-30. Significant damage was caused by a tornado outside of Viterbo in Lazio, Italy. Further losses related to convective storms were reported from Austria, Switzerland and Poland. Economic losses were initially listed in the tens of millions EUR.

Middle East

Date	Event	Location	Deaths	Structures/Claims	Economic Loss (USD)
08/02-08/07	Flooding	Yemen	174	Hundreds	Millions
08/22-08/23	Flooding	Turkey	15	690+	10+ million

Heavy rains triggered flooding in southwestern Arabian Peninsula, notably western Yemen, in early August. The death toll was listed at 174. Notable damage occurred in western governorates; multiple UNESCO-listed buildings in Sana'a were reportedly destroyed.

Severe flash flooding with landslides and mudslides affected the Giresun Province in northeastern Turkey on August 22-23, with additional effects also felt in Samsun, Rize and Trabzon. At least 15 people were killed or went missing. Flooding occurred in seven districts - the worst situation was in Doğankent, Dereli and Yağlıdere. Notable infrastructural damage led to additional costs in millions USD.

Africa

Date	Event	Location	Deaths	Structures/Claims	Economic Loss (USD)
07/01-08/31	Flooding	Niger	51	22,000+	Millions
07/01-08/31	Flooding	South Sudan	NA	Thousands	Millions
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	Sudan	102	100,000+	100+ million
08/01-08/31	Flooding	Kenya	0	1,000+	Unknown
08/25-08/31	Flooding	Uganda	8	Thousands	Unknown

Heavy seasonal rains in Niger resulted in notable flooding along the River Niger and its tributaries. According to governmental assessments, more than 22,000 structures were damaged or destroyed and there were at least 45 fatalities. Most affected regions were Maradi, Tahoua, Tillaberi, Dosso and Niamey.

The peak of the rainy season in South Sudan resulted in widespread flooding in the country during July and August. According to the UNHCR, roughly 600,000 people might have been displaced from their homes.

Notable floods in Mali during the month of August affected regions of Gao, Mopti, Segou and Sikasso, destroying hundreds of homes. The most affected states were Jonglei, States and Unity.

During the month of August, seasonal flooding impacted several regions of Chad. According to various intergovernmental agencies, number of displaced could have reached 120,000. At least 10 people were killed.

Widespread flooding impacted Sudan during the month of August. Local reports and governmental agencies suggested at least 102 fatalities occurred and more than 100,000 homes were either damaged or destroyed. Among the worst affected regions were North Darfur, Sennar, West Kordofan, and Kassala.

Unprecedented water levels of Lake Turkana and Lake Baringo in Kenya prompted notable coastal inundation, with residential, public and commercial property, infrastructure and beaches affected. Local officials reported that at least 1,000 households were displaced.

Record-breaking water levels of Lake Kyoga and lake Albert in late August resulted in notable inundation in Uganda and displacement of at least 8,700 people. Strong storms also resulted in at least eight fatalities in Arua District.

Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
06/01-08/31	Flooding	China	267	1.0+ million	28+ billion
06/01-08/31	Flooding	Bangladesh	257	1.3+ million	500+ million
06/01-08/31	Flooding	India	1,670	150,000+	2.0+ billion
06/01-08/31	Flooding	Nepal	280	10,000+	100+ million
07/01-08/31	Flooding	Pakistan	237	20,000+	500+ million
07/01-08/14	Flooding	South Korea	42	14,100+	420+ million
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 Mekkhal	China	0	Thousands	161+ million
08/18	Earthquake	Philippines	1	1,000+	Negligible
08/18-08/19	Tropical Storm Higos	China, Vietnam, Thailand	11	4,000+	142+ million
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

Seasonal monsoon rains throughout August enhanced ongoing floods in central and northern parts of the greater Yangtze River basin in China; Sichuan, Chongqing, Shaanxi, Gansu provinces witnessed historic levels of flooding. The Ministry of Emergency Management cited that heavy rains left notable impacts in 24 provincial-level regions, where 92 people were left dead and more than 310,000 homes were damaged or destroyed in August alone. Up to 370 river locations swelled to above the flood warning levels, submerging 3 million hectares (7.5 million acres) of cropland. Combined seasonal economic losses were listed at CNY188 billion (USD28 billion), of which CNY41.5 billion (USD6 billion) occurred in the month of August alone.

Torrential monsoon rains which started in June and continued into August, prompted severe flooding and landslides in 33 districts across Bangladesh. Major rivers surpassed flood-stage at hundreds of locations, causing widespread inundation damage to 1.3 million homes; most built with poor construction quality. A large area of cropland – 258,000 hectares (640,000 acres) – was also affected, and the associated economic losses were estimated at USD160 million. Overall economic damage was even higher. At least 257 people were confirmed dead in rain- and lightning-related incidents, per the Ministry of Disaster Management and Relief, Bangladesh.

Persistent heavy monsoon precipitation and associated severe weather since early August worsened the flood situation across India. Among the hardest-hit states included Assam, Gujarat, Maharashtra, Chhattisgarh, West Bengal, Karnataka, Bihar, Odisha, Kerala, and Madhya Pradesh. Disaster Management Division, Ministry of Home Affairs, India cited that up to 150,000 houses and tens of thousands of other structures were damaged or destroyed. The death toll since June 1 rose to 1,670, of which 600 casualties were noted in August alone. Nearly 21 million people were directly affected, and more than 1.1 million hectares (2.8 million acres) of cropland were inundated across 25,000 villages. The total combined economic toll was anticipated to exceed USD2 billion; likely higher.

Torrential monsoon precipitation prompted flash floods and landslides in nearly 15 districts in Nepal between August 3-19, causing at least 60 additional casualties. Since July 1, the death toll due to monsoon flooding rose to 280, according to the latest information by the National Disaster Risk Reduction and Management Authority (NDRRMA), Nepal. Nearly 10,000 homes along with a vast area of cropland were damaged or destroyed.

Heavy monsoon rainfall throughout August worsened the flooding situation in Pakistan, notably in provinces of Punjab, Sindh, and Khyber Pakhtunkhwa. At least 237 people were killed, according to the National Disaster Management Authority, Pakistan. More than 20,000 homes were inundated or damaged. Damage to commercial interests in the City of Karachi alone was estimated at PKR25 billion (USD150 million). The overall economic cost to property, infrastructure, and agriculture was even higher.

Seasonal monsoon rains were enhanced by passing tropical cyclones across South Korea during the first half of August. Severe flooding impacted nearly 14,500 homes and businesses, roads, bridges, and 25,000 hectares (62,000 acres) of farmland. This brought the seasonal death toll to 42, of which 30 were noted in early August alone. The federal government identified KRW500 billion (USD420 million) in damage to be covered by relief funds.

Heavy rainfall prompted flash floods in Nangarhar and Parwan provinces of Afghanistan on July 31 – August 1. According to the Afghanistan National Disaster Management Authority (ANDMA), 14 people were killed, and hundreds of homes, businesses, and roads were inundated or damaged.

Tropical Storm Sinlaku made landfall in Vietnam on August 2, causing widespread damage in the northern and central parts of the country. Nearly 10,000 houses, roads, bridges, and 7,200 hectares (18,000 acres) of agricultural land was submerged underwater. Remnants of Sinlaku affected 18 provinces in northern parts of Thailand and up to 2,000 houses were damaged or destroyed in storm-related incidents. At least six combined fatalities were noted in Thailand (4) and Vietnam (2).

Typhoon Hagupit came ashore near the Yueqing City of Zhejiang province in China on August 3, causing widespread damage in eastern parts of China. Chinese Ministry of Emergency Management (MEM) cited that thousands of houses and a large area of cropland were damaged in storm-related incidents. MEM cited an economic loss of CNY10.5 billion (USD1.5 billion). Hagupit also impacted Taipei in northern Taiwan where one person was killed, and nearly 2,000 houses were damaged or destroyed.

Seasonal monsoon rains were enhanced by passing tropical cyclones across North Korea, particularly in North and South Hwanghae, North Phyongan, and Kangwon provinces. Officially, at least 22 people were killed, and nearly 17,000 homes and 40,000 hectares (98,000 acres) cropland were inundated or destroyed.

Tropical Storm Jangmi came ashore near the southern tip of Geoje Island in Gyeongsang Province on August 10. The storm further enhanced the flood situation in Japan and South Korea.

Typhoon Mekkhala made landfall as a Category 1-equivalent hurricane near Zhangpu County in Fujian Province, China on August 11. China's MEM noted flash flood, wind, and coastal inundation damage in its wake. Total economic losses were listed at CNY1.1 billion (USD161 million).

A magnitude-6.6 earthquake struck 67 kilometers (42 miles) southeast of Masbate Island, Philippines on August 18. One person was killed, and 50 others were injured. The National Disaster Risk Reduction and Management Council noted that more than 1,000 structures, several roads and bridges sustained damage to various degrees. Economic losses to infrastructure alone were estimated at USD0.6 million.

Tropical Storm Higos made landfall near Zhuhai City in China's Guangdong province on August 19. The storm also severely impacted neighboring country of Vietnam. Eleven combined fatalities in China (3) and Vietnam (8) were noted, while more than 4,000 homes were damaged to various degrees. Total economic losses in China were listed at CNY900 million (USD140 million); while Vietnam cited damage at VND45 billion (USD2 million).

A monsoon low over the Andaman Sea and Gulf of Thailand resulted in heavy precipitation in northern provinces of Thailand and Vietnam on August 21-24. Government agencies noted nine fatalities in Vietnam (8) and Thailand (1), and roughly 5,000 homes were damaged or destroyed due to flooding. Further losses were inflicted on local and agricultural infrastructure.

Typhoon Bavi made landfall southwest of the North Korea's capital of Pyongyang on August 27. Hundreds of buildings and an extensive area of cropland sustained wind- and flood-related damage in North Korea. Unofficial reports from North Korea cited “dozens of casualties”. Government officials in South Korea cited that hundreds of structures were damaged or destroyed. Total economic losses on the Korean Peninsula were likely to reach well into the millions (USD).

Incessant rains between August 24-27 triggered severe flash floods in 13 provinces located in northern and eastern parts of Afghanistan; Parwan Province was worst-hit. At least 190 people were confirmed dead and several others were missing. As many as 2,000 homes sustained damage, while several businesses, roads, and a vast area of crops were also damaged.

Oceania (Australia, New Zealand, South Pacific Islands)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
08/05-08/08	Severe Weather	Australia	0	2,000	Millions

From August 5-8, a low-pressure system moved through the state of New South Wales and resulted in heavy rainfall and strong winds exceeding 120 kph (75 mph). Up to 2,000 structures sustained damage and an extensive area of agricultural land was inundated.

Appendix

Updated 2020 Data: January-July

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	115,000+	1.55+ billion
04/24-04/26	Severe Weather	Midwest, Plains, Southeast, Mid-Atlantic	0	65,000+	850+ million
04/27-04/29	Severe Weather	Midwest, Plains, Southeast	0	105,000+	995+ million
05/02-05/03	Severe Weather	Plains, Midwest, Southeast	2	67,000+	825+ million
05/04-05/05	Severe Weather	Plains, Midwest, Southeast	0	110,000+	1.3+ 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+	1.9+ billion
05/20-05/24	Severe Weather	Rockies, Plains, Midwest	2	140,000+	1.65+ 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	125,000+	1.55+ billion
05/30-05/31	Severe Weather	Northwest	0	Hundreds	10s of millions
06/02-06/04	Severe Weather	Plains, Midwest, Northeast	3	57,500+	775+ million
06/04	Severe Weather	South Dakota	0	30,000+	380+ million
06/05-06/11	Severe Weather	West, Rockies, Plains, Midwest	0	77,500+	800+ million
06/06-06/09	Tropical Storm Cristobal	Southeast, Plains, Midwest	1	20,000+	325+ 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
07/10-07/11	Tropical Storm Fay	Southeast, Northeast	6	15,000+	350+ million
07/10-07/12	Severe Weather	Rockies, Plains, Southeast, Midwest	0	82,500+	925+ million
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
07/26-07/27	Hurricane Douglas	Hawaii	0	Unknown	Negligible

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
04/26-04/30	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
06/01-06/05	Tropical Storm Cristobal	Mexico, Guatemala, El Salvador	1	10,000+	340+ million
06/13-06/14	Severe Weather	Canada	0	70,000+	1.28+ billion
06/23	Earthquake	Mexico	10	Thousands	Millions
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
07/23-07/24	Severe Weather	Canada	0	11,000+	133+ million
07/25-07/27	Hurricane Hanna	Mexico	5	Thousands	100+ million

South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
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	10s of millions
07/01-07/15	Flooding	Brazil	0	1,000+	10s of millions
07/01-07/15	Flooding	Colombia	11	6,000+	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	2.6+ 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+	1.1+ billion
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
06/22-06/29	Flooding	Ukraine, Central Europe	4	22,000+	345+ million
06/22-06/23	Flooding	Serbia, Bosnia & Herzegovina	0	1,800+	43+ million
06/26-06/29	Severe Weather	Central Europe	0	Thousands	60+ million
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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
07/15	Flooding	Italy	2	500+	Millions
07/28-07/29	Severe Weather	Central Europe	0	Thousands	80+ million

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+	10s of millions
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
06/03-06/04	Flooding	Yemen	16	Hundreds	Unknown
06/14	Earthquake	Turkey	1	2,200+	Millions
06/21-06/23	Flooding	Turkey	7	Hundreds	Millions
07/22-07/25	Flooding	Yemen	17	100+	Unknown

*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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
06/15-07/20	Flooding	Somalia	4	Thousands	Unknown
06/18	Flooding	Ivory Coast	17+	12+	Unknown
06/24-07/31	Flooding	Nigeria	30+	Hundreds	Unknown

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
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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
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
06/03-06/04	Tropical Storm 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
07/02-07/04	Flooding	Mongolia	8	2,500+	1.7+ million
07/03-07/10	Flooding	Japan	82	20,000+	5.0+ 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

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	Thousands	Millions
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

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.

Contact Information

Adam Podlaha

Head of Impact Forecasting
Impact Forecasting
Aon
adam.podlaha@aon.com

Steve Bowen

Director & Meteorologist
Head of Catastrophe Insight
Impact Forecasting
Aon
steven.bowen@aon.com

Michal Lörinc

Senior Catastrophe Analyst
Impact Forecasting
Aon
michal.lorinc@aon.com

Brian Kerschner

Senior Catastrophe Analyst
Impact Forecasting
Aon
brian.kerschner@aon.com

Gaurav Srivastava

Catastrophe Analyst
Impact Forecasting
Aon
gaurav.srivastava6@aon.com

About Aon

Aon plc (NYSE: AON) is a leading global professional services firm providing a broad range of risk, retirement and health solutions. Our 50,000 colleagues in 120 countries empower results for clients by using proprietary data and analytics to deliver insights that reduce volatility and improve performance.

© Aon plc 2020. All rights reserved.

The information contained herein and the statements expressed are of a general nature and are not intended to address the circumstances of any particular individual or entity. Although we endeavor to provide accurate and timely information and use sources we consider reliable, there can be no guarantee that such information is accurate as of the date it is received or that it will continue to be accurate in the future. No one should act on such information without appropriate professional advice after a thorough examination of the particular situation.

Copyright © by Impact Forecasting®

No claim to original government works. The text and graphics of this publication are provided for informational purposes only. While Impact Forecasting® has tried to provide accurate and timely information, inadvertent technical inaccuracies and typographical errors may exist, and Impact Forecasting® does not warrant that the information is accurate, complete or current. The data presented at this site is intended to convey only general information on current natural perils and must not be used to make life-or-death decisions or decisions relating to the protection of property, as the data may not be accurate. Please listen to official information sources for current storm information. This data has no official status and should not be used for emergency response decision-making under any circumstances.

Cat Alerts use publicly available data from the internet and other sources. Impact Forecasting® summarizes this publicly available information for the convenience of those individuals who have contacted Impact Forecasting® and expressed an interest in natural catastrophes of various types. To find out more about Impact Forecasting or to sign up for the Cat Reports, visit Impact Forecasting's webpage at impactforecasting.com.

Copyright © by Aon plc. All rights reserved. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise. Impact Forecasting® is a wholly owned subsidiary of Aon plc.