



# Global Catastrophe Recap

December 2017

# Table of Contents

<b>Executive Summary</b>	<b>3</b>
<b>United States</b>	<b>4</b>
<b>Remainder of North America</b>	<b>4</b>
<b>South America</b>	<b>4</b>
<b>Europe</b>	<b>5</b>
<b>Middle East</b>	<b>5</b>
<b>Africa</b>	<b>5</b>
<b>Asia</b>	<b>6</b>
<b>Oceania</b>	<b>6</b>
<b>Appendix</b>	<b>7</b>
<b>Contact Information</b>	<b>17</b>

## Executive Summary

- Destructive wildfires in Southern California generate billion-dollar economic and insured losses
- Cyclone Ockhi triggers extensive flooding in Sri Lanka and India
- Two consecutive tropical cyclones, Kai-tak and Tembin, caused 440 fatalities in Philippines

Southern California endured a destructive wildfire outbreak, which engulfed portions of Ventura and Los Angeles counties during the month of December. The most significant was the Thomas Fire, which was noted to have destroyed more than 1,063 homes and was declared the largest wildfire in California's modern history. Billion-dollar economic and insured losses were confirmed by the authorities as a result.

Cyclone Ockhi impacted Sri Lanka and portions of India in early December. Heavy rainfall, associated with the cyclone, triggered extensive flooding and landslides. Tens of thousands of homes were damaged or destroyed, while hundreds of people were killed. Unofficial reports indicated that hundreds of others may have been killed or missing, particularly in southern India. Economic losses were expected to reach well into the 100s of millions (USD) though unconfirmed reports indicated the losses could reach into the billions (USD).

Two consecutive tropical cyclones impacted the Philippines between December 16 and 26. Kai-tak, locally also known as "Urduja", made landfall in Eastern Samar province where it left more than 34,000 homes damaged or destroyed and at least 91 people dead. Typhoon Tembin later impacted Southern Philippines, where it was known as "Vinta", and triggered extensive flooding and landslides, which left 349 people dead or missing. Tembin later tracked towards Vietnam and caused minor losses in the country. The cumulative economic impact of the two storms in the Philippines was estimated by the authorities at more than PHP4.9 billion (USD97 million).

An outbreak of Arctic air impacted much of the northern United States at the end of December causing temperatures to plunge and prompting heavy snowfall that led to widespread traffic disruption and numerous weather-related accidents. Record lake-effect snow accumulations were observed near the Great Lakes, particularly in Pennsylvania and New York states. The influx of cold air was preceded by another winter weather period in the first half of December.

Australia's Victoria state experienced an outbreak of powerful thunderstorms that generated large hail, strong winds and localized flash flooding on December 19. The resulting damage cost for insurers was estimated to well exceed AUD105 million (USD80 million).

Multiple windstorms impacted Western Europe during the month of December. Among the most notable storms were Xanthos, Ana (also Yves) and Bruno, with the primary impacts felt in France and Spain.

Deadly flooding was reported from Chile where flash flooding and landslides impacted Villa Santa Lucia in the southern part of the country. Further notable flooding events occurred in Europe: thousands of homes were affected in southern and central Albania at the beginning of the month while Emilia Romagna region in northern Italy endured notable flooding on several tributaries of the Po River.

Among notable earthquakes that were observed in December was a tremor that impacted parts of Java Island in Indonesia on December 15, killing at least four people and damaging thousands of homes.

## United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
12/04-12/31	Wildfires	California	2	20,000+	3.2+ billion
12/07-12/10	Winter Weather	Eastern U.S.	3	Thousands	10s of millions
12/25-12/30	Winter Weather	Central & Eastern U.S.	4	Thousands	10s of millions

Consecutive days of extremely dry and windy conditions led to multiple dangerous wildfires that burned across portions of Southern California this week, including in Ventura and Los Angeles counties. The most significant of the fires, the Thomas Fire, was noted to have destroyed more than 1,063 homes alone and was declared the largest wildfire in California's modern history. The fires were ignited by one of the strongest and most extended Santa Ana wind events in recent years. Both economic and insured losses are in the billions of USD.

A strong, early season winter storm brought rare heavy snowfall across parts of the US South in the first half of December, before later tracking into the Northeast. At least three storm-related fatalities were reported. The broad area of low pressure would later prompt widespread heavy lake effect snow in the Great Lakes, while high winds left nearly 500,000 customers without electricity in the hardest-hit regions. The storm system broke numerous snowfall records as measurable snow was registered as far south as the Texas/Mexico border and the Florida panhandle.

Bitter cold air engulfed much of the central and eastern United States from December 25 to 30; while record lake-effect snow was cited in parts of Pennsylvania and upstate New York. At least four people were killed in traffic-related accidents as the Arctic cold and heavy snowfall did lead to widespread travel delays and cancellations at airports and on the roads. Additional cold and snow was also registered in parts of southern and eastern Canada.

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

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

There were no significant natural disaster events in North America (non-U.S.) during the month of December.

## South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
12/16	Flooding & Landslides	Chile	22	Dozens	Millions

Flash flooding and landslides struck the southern Chilean town of Villa Santa Lucia in Los Lagos region during the morning of December 16 killing at least 16 people. A further six people were listed as missing while 12 others sustained injuries when the debris flows struck at approximately 09:20AM local time on Saturday. The flows destroyed approximately one-third of the town which is home to approximately 130 residents. The worst affected areas were in the northern part of the town where multiple homes, a school, and military compound were located.

## Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
11/30-12/03	Flooding	Albania, Greece	1	8,500+	Millions
12/10-12/12	WS Xanthos & Ana	Spain, France, Germany	1	Thousands	100+ million
12/12-12/12	Flooding	Italy	0	Thousands	125+ million
12/26-12/28	WS Bruno	France, Spain	2	Thousands	75+ million

Torrential rainfall prompted widespread flooding in the southwest of the Balkan Peninsula from November 30 through December 3. Damage was reported from Albania and western Greece. At least one fatality was reported while thousands of people had to be rescued or evacuated. Thousands of homes were affected. The financial impact of the event was expected to reach into the tens of millions (USD).

Two successive low pressure areas impacted multiple European countries from December 10 through 12 with high wind gusts and heavy snowfall. Windstorm Xanthos affected the northern coast of France on December 10 and brought widespread disruption to Germany due to heavy snowfall. Xanthos was shortly followed by Ana, also named Yves by the Free University of Berlin. Yves generated high gusts across western and central Europe, notably in France and Spain. One fatality was reported in Portugal.

Major regional flooding hit portions of Emilia Romagna region in Northern Italy on December 12. Among the causes of the event was recent heavy rainfall, coupled with significant warming that resulted in rapid snowmelt. Several rivers in the Po Valley burst their banks as a result. The worst affected areas were along the Enza and Parma Rivers in Parma province. Initial surveys estimated the total damage at EUR105 million (USD125 million).

Windstorm Bruno, the second storm to be named collectively by the Western European meteorological offices, impacted portions of France and the Iberian Peninsula from December 26-28. Among the worst affected regions were the Basque Country in Spain and several southern French departments. Two fatalities were reported from Spain; however the overall economic impact of the storm was not significant.

## Middle East

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

There were no significant natural disaster events in the Middle East during the month of December.

## Africa

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

There were no significant natural disaster events in Africa during the month of December.

## Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
11/29-12/06	CY Ockhi	Sri Lanka, India	245	40,000+	920+ million
12/15	Earthquake	Indonesia	4	5,053+	Millions
12/16-12/19	TS Kai-tak	Philippines	91	34,000+	56+ million
12/21-12/26	TY Tembin	Philippines, Vietnam	349	9,500+	41+ million

Cyclone Ockhi triggered extensive flooding in Sri Lanka and portions of India as it brought prolonged heavy rainfall to the affected areas from November 29 through the first week in December. At least 245 people were killed and hundreds more were listed as missing as the cyclone caused damage to more than 40,000 homes across Sri Lanka and India. India's Lakshadweep Islands bore the brunt of the storm however significant damage was also reported from Tamil Nadu and Kerala states. Economic losses were expected to reach well into the 100s of millions (USD), though unconfirmed reports indicated the losses could reach into the billions (USD).

A strong magnitude-6.5 earthquake struck Indonesia's Java Island on December 15, killing at least four people and injuring 36 others. The tremor damaged nearly 5,000 homes and multiple other structures across the provinces of West Java, Central Java and Yogyakarta.

Tropical Storm Kai-tak became just the third named storm this year to impact the Philippines when it made landfall over Eastern Samar province during the afternoon of December 16. Kai-tak, locally known as "Urduja", affected more than 1.8 million people while leaving at least 91 people dead and injuring 78 others. Damage was noted to 34,000 homes of which more than 4,000 were destroyed. Roads, bridge, schools, and agricultural interests also sustained damage due to gusty winds, flooding rains, and landslides prompted by the storm. Economic damage to infrastructure and agriculture alone was minimally estimated at PHP2.8 billion (USD56 million).

Torrential rainfall resulting from Typhoon Tembin impacted southern sections of the Philippines from December 21, leading to extensive flooding and landslides. At least 349 people were left dead or missing as rescue operations remained ongoing to find survivors. In total 9,500 homes were damaged, of which almost 3,600 were destroyed as the Philippines endured its second tropical cyclone landfall in less than two weeks. A weakened Tembin would later bring heavy rains to southern Vietnam though damage impacts were minimal. Losses to agriculture and infrastructure in the Philippines reached more than PHP2.1 billion (USD41 million).

## Oceania (Australia, New Zealand, South Pacific Islands)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
12/19	Severe Weather	Australia	0	21,000+	100s of millions

A strong thunderstorm outbreak, associated with a deep low pressure area, impacted portions of Victoria State in Southeastern Australia on December 19, bringing powerful gusts, large hail and localized flash flooding. The state capital, Melbourne, was among the worst affected regions. The resulting damage to insurers is estimated minimally at AUD170 million (USD136 million) from at least 21,000 claims processed to date.

## Appendix

### Updated 2017 Data: January – November

#### United States

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-01/03	Severe Weather	Southeast, Plains	6	10,000+	250+ million
01/06-01/13	Winter Weather	Pacific Northwest, Southwest, Rockies	5	40,000+	700+ million
01/06-01/08	Winter Weather	Southeast, East Coast	5	Thousands	Millions
01/13-01/18	Winter Weather	Plains, Midwest	7	Thousands	Millions
01/17-01/19	Winter Weather	West, Rockies	4	Thousands	Millions
01/18-01/23	Severe Weather	Southeast, Plains, West, Northeast	21	100,000+	1.3+ billion
01/19-01/25	Winter Weather	West, Rockies, Plains, Midwest	5	Thousands	Millions
02/07-02/08	Severe Weather	Southeast	1	10,000+	175+ million
02/08-02/09	Winter Weather	Mid-Atlantic, Northeast	1	Unknown	Millions+
02/12-02/14	Flooding	California	0	N/A	200+ million
02/12-02/14	Winter Weather	Upper Mid-Atlantic, Northeast	1	Thousands	Millions+
02/14	Severe Weather	Texas	0	Hundreds	Millions+
02/16-02/18	Flooding	California	7	25,000+	800+ million
02/19-02/21	Flooding	California	1	10,000+	500+ million
02/19-02/20	Severe Weather	Texas	0	20,000+	225+ million
02/24-02/25	Severe Weather	Northeast, Mid-Atlantic	0	Thousands	Millions+
02/27-03/02	Severe Weather	Midwest, Southeast, Mid-Atlantic	4	175,000+	1.9+ billion
03/03-09/30	Drought	Rockies, Plains	N/A	N/A	2.5+ billion
03/06-03/10	Severe Weather	Midwest, Plains, Southeast	0	250,000+	2.1+ billion
03/07-03/09	Wildfires	Plains, Rockies, Florida	7	Hundreds	100+ million
03/13-03/15	Winter Weather	Plains, Midwest, Southeast, Northeast	11	Thousands	1.0+ billion
03/20-03/22	Severe Weather	Southeast, Midwest	1	75,000+	975+ million
03/26-03/28	Severe Weather	Plains, Southeast, Midwest	0	200,000+	2.75+ billion
03/28-03/31	Severe Weather	Plains, Southeast, Midwest, Mid-Atlantic	1	30,000+	325+ million
04/01-04/03	Severe Weather	Plains, Southeast	5	30,000+	350+ million
04/04-04/06	Severe Weather	Plains, Mississippi Valley, Southeast	0	90,000+	900+ million
04/07-04/08	Severe Weather	West	1	10,000+	125+ million
04/09-04/11	Severe Weather	Plains, Midwest	1	30,000+	325+ million
04/14-04/20	Severe Weather	Plains, Midwest	0	Thousands	100+ million
04/21-04/26	Severe Weather	Plains, Midwest, Southeast, Mid-Atlantic	1	70,000+	950+ million
04/25-04/27	Severe Weather	Plains, Midwest, Southeast	0	15,000+	125+ million
04/28-05/01	Severe Weather	Midwest, Plains, Southeast, MS Valley	20	100,000+	2.0+ billion
05/02-05/05	Severe Weather	Plains, Mississippi Valley, Southeast	0	20,000+	175+ million
05/08-05/11	Severe Weather	Rockies, Plains	0	250,000+	3.4+ billion
05/15-05/19	Severe Weather	Plains, Midwest, Rockies	3	70,000+	975+ million
05/20-05/24	Severe Weather	Plains, Midwest, MS Valley, Southeast	1	Thousands	Millions
05/25-05/29	Severe Weather	Plains, Midwest, Mid-Atlantic, Rockies	2	40,000+	500+ million

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
06/01-09/30	Wildfires	West	0	Hundreds	2.0+ billion
06/02-06/07	Flooding	Florida	0	Thousands	Millions
06/02-06/04	Severe Weather	Plains	0	15,000+	175+ million
06/11	Severe Weather	Midwest	0	110,000+	2.0+ billion
06/12-06/14	Severe Weather	Plains, Rockies	0	70,000+	1.0+ billion
06/15-06/19	Severe Weather	Plains, Midwest, Northeast	0	55,000+	525+ million
06/21-06/23	TS Cindy	Southwest	2	Hundreds	Millions
06/27-06/30	Severe Weather	Plains, Midwest, Northeast	0	90,000+	1.55+ billion
07/09-07/12	Severe Weather	Plains, Midwest, Ohio Valley	1	Thousands	170+ million
07/12-07/24	Flooding	Illinois	0	2,100+	Millions
07/15	Flooding	Arizona	10	N/A	N/A
07/19-07/20	Severe Weather	Midwest	0	Hundreds	Millions
07/21-07/23	Severe Weather	Plains, Midwest, Mid-Atlantic	4	40,000+	450+ million
07/31	TS Emily	Florida	0	Hundreds	≤10 million
08/01	Flooding	Southeast	0	1,000+	10s of millions
08/05-08/08	Severe Weather	Plains, Midwest, Southeast	0	15,000+	325+ million
08/10-08/11	Severe Weather	Plains, Midwest	0	Thousands	100+ million
08/16	Severe Weather	Plains, Midwest	0	Thousands	10s of millions
08/21-08/22	Severe Weather	Midwest, Ohio Valley, Northeast	1	Thousands	Millions+
08/25-09/02	Hurricane Harvey	Plains, Southeast	84	800,000+	100+ billion
09/10-09/12	Hurricane Irma	Southeast	80	1.0 million	25+ billion
9/26-9/28	Hurricane Maria	North Carolina	0	Unknown	Millions
10/07-10/09	Hurricane Nate	Southeast, Mid-Atlantic	0	20,000+	250+ million
10/08-10/30	Wildfires	California	43	30,000+	13+ billion
10/14-10/15	Severe Weather	Plains, Midwest, Northeast	0	17,500+	250+ million
10/23-10/24	Severe Weather	Midwest, Southeast, Mid-Atlantic	0	10,000+	140+ million
10/30	TS Philippe (remnants)	Mid-Atlantic, Northeast	0	Thousands	100+ million
11/05-11/06	Severe Weather	Midwest, Northeast	0	10,000+	275+ million
11/18	Severe Weather	Midwest, MS Valley, Mid-Atlantic	0	Thousands	10s of millions



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

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/24-01/27	Winter Weather	Canada	2	Hundreds	10s of Millions
03/08	Severe Weather	Canada	1	14,500+	145+ million
03/11	Winter Weather	Canada	0	5,000+	130+ million
04/15-05/10	Flooding	Canada	0	Thousands	Millions
04/20-04/23	Flooding	Jamaica, Haiti, Dominican Republic	2	Thousands	Millions
05/05-05/10	Flooding	Canada	2	Thousands	10s of millions
05/05-05/20	Flooding	Canada	2	5,200+	100s of millions
05/23-05/24	Severe Weather	Canada	0	8,000+	83+ million
06/01	TS Beatriz	Mexico	6	Hundreds	Millions
06/02	Severe Weather	Canada	0	7,000+	50+ million
06/10-06/11	Flooding	Honduras, Guatemala	4	Hundreds	10s of millions
07/07-09/27	Wildfire	Canada	0	1,800+	120+ million
07/12-07/13	Severe Weather	Canada	0	4,000+	42+ million
07/15-07/27	Wildfire	Canada	0	6,000+	105+ million
07/23	Severe Weather	Canada	0	10,000+	86+ million
07/27-07/29	Severe Weather	Canada	0	7,000+	70+ million
08/07-08/10	Hurricane Franklin	Mexico	0	2,000+	Millions
08/28-08/29	Flooding	Canada	0	6,700+	365+ million
09/01-09/02	TS Lidia	Mexico	20	Thousands	Millions
09/05-09/09	Hurricane Irma	Caribbean, Bahamas	44	50,000+	30+ billion
09/07 & 09/23	Earthquake	Mexico, Guatemala	98	50,000+	1.25+ billion
09/18-09/21	Hurricane Maria	Caribbean	100s+	250,000+	65+ billion
09/19	Earthquake	Mexico	370	50,000+	4.5+ billion
10/04-10/06	Hurricane Nate	Central America	44	10,000+	250+ million
10/16-10/18	Severe Weather	Canada	0	12,600+	126+ million
10/29-10/30	TS Philippe (remnants)	Canada	0	Thousands	10s of millions
11/14-11/18	Flooding	Haiti	5	10,000+	Millions

## South America

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-02/01	Wildfire	Chile	11	2,500+	870+ million
01/01-04/01	Flooding	Peru	120	245,000+	3.1+ billion
02/24-02/26	Flooding	Chile	6	Hundreds	Millions
03/17-03/27	Flooding	Colombia	12	Hundreds	Millions+
04/01	Flooding	Colombia	420	2,500+	10s of millions
04/19	Landslide	Colombia	24	100+	Millions
05/26-05/29	Flooding	Brazil	14	Thousands	100+ million
05/24-06/19	Flooding	Uruguay, Argentina	0	Thousands	10s of millions
06/16-06/17	Flooding	Chile	4+	800+	100s of millions

## Europe

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/02-01/13	Winter Weather	Central, Eastern, Southeastern Europe	76	Thousands	10s of millions
01/12-01/13	WS Dieter & Egon	France, Germany	0	25,000+	450+ million
01/18	Earthquake	Italy	30	Hundreds	TBD
01/20-01/24	Severe Weather	Spain, France, Italy	3	Hundreds	Millions
02/03-02/06	EU Windstorms	Spain, France	2	Thousands	Millions+
02/23-02/24	WS Thomas	Western & Central Europe	3	Thousands	475+ million
03/06-03/07	WS Zeus	France	2	Thousands	550+ million
04/19-04/24	Winter Weather	Germany, Austria, Switzerland, Italy	0	Thousands	300+ million
05/29	Severe Weather	Russia	16	Thousands	Millions
06/12	Earthquake	Greece, Turkey	1	1,100+	10s of millions
06/17-06/18	Wildfire	Portugal	64	1,000+	565+ million
06/22-06/25	Severe Weather	Central & Southern Europe	4	Thousands	550+ million
05/01-07/31	Drought	Italy	N/A	N/A	2.3+ billion
07/08-07/08	Flooding	Switzerland	0	6,000+	120+ million
07/17-07/18	Wildfires	Balkans, Portugal, France, Italy	0	Hundreds	Millions
07/21	Earthquake	Greece, Turkey	2	Hundreds	100+ million
07/21-07/27	Severe Weather	Central & Southern Europe	0	Thousands	10s of millions
08/05-08/06	Flooding	Austria, Italy, Balkans	7	Thousands	100+ million
08/10-08/11	Severe Weather	Poland, Czech Republic, Slovakia	6	Thousands	587+ million
08/18-08/19	Severe Weather	Central Europe	5	Thousands	200+ million
09/09-09/10	Flooding	Italy	9	1,000+	250+ million
09/11	Flooding	Croatia	0	Hundreds	160+ million
09/12-09/13	WS Sebastian	UK, Netherlands, Germany	3	Hundreds	10s of millions
09/17	Severe Weather	Romania	8	7,000+	10s of millions
09/30-10/02	Flooding	Norway	0	2,300	100+ million
10/04-10/06	WS Xavier	Germany, Poland	9	2,000+	250+ million
10/15-10/16	Wildfire	Portugal, Spain	49	1,400+	500+ million
10/16-10/17	Ex-HU Ophelia	Ireland, United Kingdom	3	Hundreds	100+ million
10/29	WS Herwart	Central Europe	10	Thousands	100s of millions
11/11-11/19	Severe Weather	Greece, Italy, Turkey	22	1,500+	10s of millions
11/23	WS Reinhard	Norway	0	2,000+	10s of millions

## Middle East

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
04/14-04/15	Flooding	Iran	48	Hundreds	353+ million
05/13	Earthquake	Iran	3	Thousands	Millions
07/17-07/18	Flooding	Turkey	0	7,000+	200+ million
07/27	Severe Weather	Turkey	0	22,000+	650+ million
08/11	Flooding	Iran	51	Thousands	35+ million
08/30	Flooding	Yemen	18	Thousands	10+ million
11/12	Earthquake	Iran, Iraq	543	40,000+	740+ million

## Africa

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-03/31	Drought	Somalia, Ethiopia, Kenya	100s	N/A	1.9+ billion
01/01-03/31	Flooding	Zimbabwe	271	Thousands	200+ million
01/01-06/01	Drought	South Africa	N/A	N/A	100+ million
01/05-01/12	Flooding	South Africa, Angola	7	5,000+	Millions
02/15-02/16	Cyclone Dineo	Mozambique	7	107,204+	17+ million
03/07	Cyclone Enawo	Madagascar	99	85,000+	20+ million
03/19	Severe Weather	Ghana	19	0	N/A
03/21-03/24	Flooding	Angola	11	5,300+	Millions
05/08-05/16	Flooding	Kenya, Tanzania	33	Thousands	194+ million
06/07-06/08	Severe Wx & Wildfires	South Africa	11	Thousands	500+ million
06/10-06/16	Flooding	Niger, Ivory Coast	27	700+	10s of millions
07/08-07/09	Flooding	Nigeria	20	Hundreds	5.0+ million
07/10	Flooding	Niger	23	2,405	Millions
08/14	Landslide	Sierra Leone	~1,100+	1,100+	Millions
08/16	Landslide	DR Congo	200	50+	Negligible
09/19	Flooding	Democratic Republic of Congo	105	Hundreds	1.0+ million
09/26	Flooding	Uganda	25	Hundreds	1.0+ million
10/09-10/10	Severe Weather	South Africa	11	500+	200+ million

## Asia

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/01-01/31	Flooding	Thailand	96	585,000+	860+ million
01/01-01/23	Flooding	Malaysia	0	Thousands	132+ million
01/01-06/30	Drought	North Korea, South Korea	N/A	N/A	90+ million
01/12-01/16	Flooding	Philippines	11	Hundreds	Unknown
01/16-01/31	Flooding	Philippines	11	1,000+	8.1+ million
01/20	Landslide	China	12	One	Unknown
01/22-01/24	Flooding	Pakistan	5	Hundreds	Unknown
01/24-01/25	Winter Weather	Afghanistan	31	N/A	Unknown
01/25-01/26	Winter Weather	India	11	N/A	Unknown
01/25-01/30	Flooding	Indonesia	1	2,000+	Millions
01/28	Earthquake	China	0	14,000+	55+ million
02/01-02/05	Winter Weather	Afghanistan, Pakistan	159	325+	Unknown
02/09-02/12	Flooding	Indonesia	12	18,000+	Millions+
02/10	Earthquake	Philippines	8	7,200+	40+ million
02/17-02/19	Winter Weather	Afghanistan, Pakistan	58	N/A	N/A
01/01-05/01	Drought	Sri Lanka	N/A	N/A	10s of millions
03/01	Severe Weather	China	7	13,700+	28+ million
03/03	Flooding	Indonesia	8	3,482+	19+ million
03/14-03/29	Severe Weather	Thailand	3	6,000+	Millions
03/27	Earthquake	China	0	45,000+	50+ million
03/28-04/15	Flooding	Bangladesh	0	Thousands	352+ million
04/01	Landslide	Indonesia	28	23+	11+ million
04/04-04/09	Earthquake	Philippines	0	5,000+	Millions
04/08-04/10	Severe Weather	China	2	2,300+	36+ million
04/15	TD 02W	Philippines	10	170+	Millions
04/15-04/17	Severe Weather	China	0	3,800+	41+ million
04/20-04/22	Heatwave	India	10	N/A	N/A
04/22	Severe Weather	Pakistan	11	Hundreds	Unknown
04/29	Landslide	Kyrgyzstan	24	11+	Unknown
04/29	Flooding	Indonesia	10	71+	Unknown
05/01-08/31	Drought	China	N/A	N/A	2.5+ billion
05/01	Severe Weather	Bangladesh	12	Unknown	Unknown
05/07-05/20	Flooding	China	17	15,000+	225+ million
05/11	Earthquake	China	8	59,300+	294+ million
05/12-05/15	Flooding	Indonesia	7	5,000+	Millions
05/13-05/15	Severe Weather	China	1	5,000+	147+ million
05/20-05/24	Severe Weather	China	9	20,000+	294+ million
05/25-05/31	Flooding	Sri Lanka	~290	23,000+	197+ million
05/29-05/31	Cyclone Mora	Bangladesh, Myanmar	9	50,000+	100+ million
05/31-06/05	Flooding	China, Taiwan	4	10,100+	368+ million
06/01-06/03	Flooding	Indonesia	4	60,000+	10s of millions
06/05-06/07	Heatwave	India	28	N/A	Unknown

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
06/09-06/12	Flooding	China	11	11,500+	115+ million
06/10	Severe Weather	Pakistan	15	Hundreds	Millions
06/12-06/13	Flooding	China	1	1,500+	51+ million
06/12-06/13	Flooding	Bangladesh, India	169	5,000+	10s of millions
06/15-06/21	Flooding	China	9	400+	93+ million
06/21-06/22	Severe Weather	China	2	400+	50+ million
06/23	Landslide	China	83	62+	Millions
06/30-07/04	Flooding	Pakistan	43	Hundreds	Unknown
06/22-07/05	Flooding	China	141	412,600	7.5+ billion
07/04-07/06	TS Nanmadol	Japan	37	2,600+	1.0+ billion
07/06	Earthquake	Philippines	3	3,758+	6.9+ million
07/06-07/11	Severe Weather	China	2	2,100+	67+ million
07/07-07/10	Flooding	Vietnam, Laos	19	Hundreds	1.0+ million
07/07-07/11	Flooding	China	22	18,900+	272+ million
07/08-07/12	Flooding	India, Pakistan, Bangladesh	53	115,000+	100s of millions
07/13-07/17	Flooding	China	20	58,100+	4.5+ billion
07/14-07/18	Flooding	China	0	3,200+	33+ million
07/14-07/18	Flooding	India	27	15,000+	450+ million
07/17	Flooding	Afghanistan	36	260+	Millions
07/17-07/18	TS Talas	China, Vietnam, Laos, Thailand	4	4,200+	44+ million
07/17-07/20	Flooding	China	11	3,200+	37+ million
07/18-07/25	Flooding	Thailand, Myanmar	23	12,500+	300+ million
07/19-07/21	Severe Weather	China	12	3,700+	48+ million
07/21-07/26	Flooding	India	53	Thousands	10s of millions
07/22-07/23	Flooding	South Korea	2	2,345+	51+ million
07/23	Earthquake	China	0	8,700+	8.0+ million
07/24-07/28	Severe Weather	China	13	6,500+	171+ million
07/25-07/28	TS Sonca	Vietnam, Laos, Cambodia, Thailand	12	4,176+	Millions
07/29-07/31	TY Nesat & TSHaling	China, Taiwan, Philippines	1	10,000+	132+ million
08/02-08/03	Flooding	China	4	2,000	60+ million
08/02-08/05	Flooding	China	3	15,000+	327+ million
08/03	Flooding	Vietnam	40	Thousands	88+ million
08/06-08/09	Flooding	China	40	10,000+	315+ million
08/06-08/07	Flooding	Russia	0	2,200+	10s of millions
08/07-08/09	Typhoon Noru	Japan	2	Thousands	100s of Millions
08/08	Earthquake	China	25	72,500+	100s of Millions
08/08-08/09	Severe Weather	China	1	4,200+	17+ million
08/10-08/31	Flooding	Bangladesh	144	717,600+	10s of millions
08/11-08/31	Flooding	Nepal	159	235,400+	125+ million
08/11-08/31	Flooding	India	950	Thousands	10s of millions
08/11-08/16	Flooding	China	18	12,600+	429+ million
08/12-08/13	Severe Weather	China	0	300+	54+ million
08/13	Landslide	India	46	20+	Negligible
08/17-08/20	Severe Weather	China	2	1,700+	46+ million

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
08/23-08/24	Typhoon Hato	Macau, Hong Kong, China	22	7,300+	3.5+ billion
08/25-08/28	Typhoon Pakhar	China	13	Thousands	56+ million
08/25-09/01	Flooding	China	0	4,700+	90+ million
08/29-08/30	Flooding	India	12	Thousands	500+ million
08/28	Flooding	China	35	Hundreds	2.5+ million
08/31	Flooding	Pakistan	25	Hundreds	1.0+ million
08/31-09/03	Severe Weather	China	2	Hundreds	93+ million
09/08-09/11	Flooding	China	19	5,800+	94+ million
09/12-09/15	Typhoon Doksuri	Philippines, China, Indochina	40	230,500+	500+ million
09/14-09/18	Typhoon Talim	Japan	5	7,230+	700+ million
09/16-09/17	Severe Weather	China	0	2,400+	1.0+ million
09/18-09/19	Flooding	China	1	2,400+	26+ million
09/24-09/30	Flooding	China	16	20,500+	361+ million
10/01-10/10	Flooding	China	23	28,800+	494+ million
10/09-10/12	Flooding	China	0	400+	77+ million
10/10-10/15	Flooding	Vietnam	98	18,000+	10s of millions
10/10-10/25	Flooding	Thailand	9	121,000+	Millions+
10/13-10/17	Typhoon Khanun	Philippines, China, Vietnam	1	Thousands	300+ million
10/18-10/23	Typhoon Lan	Japan, Philippines	17	10,000+	1.0+ billion
10/22	Avalanche	Mongolia	17	N/A	N/A
10/28-10/30	Typhoon Saola	Japan	0	Hundreds	10s of millions
10/31-11/06	Flooding	India	14	Thousands	10s of millions
11/01-11/08	Typhoon Damrey	Vietnam, Philippines	114	300,000+	1.0+ billion
11/04-11/07	Flooding	Indonesia	0	3,368+	Millions
11/15	Earthquake	South Korea	0	1,000+	10s of millions
11/18	Earthquake	China	0	7,800+	10+ million
11/20-11/23	Flooding	Vietnam	8	8,289+	10+ million
11/21-12/02	Volcano	Indonesia	0	N/A	Millions
11/23	Earthquake	China	0	3,800+	6.1+ million
11/28-11/29	Cyclone Cempaka	Indonesia	11	4,000+	Millions
11/29-12/01	Flooding	Sri Lanka	16	32,125+	Millions
11/29-12/03	Flooding	Thailand	5	161,266+	Millions+

## Oceania (Australia, New Zealand, South Pacific Islands)

Date	Event	Location	Deaths	Structures/ Claims	Economic Loss (USD)
01/20-01/23	Flooding	French Polynesia	0	1,000+	Millions
02/09-02/13	Wildfires	Australia	0	1,200+	10s of Millions
02/09-02/16	Flooding	Australia	2	Thousands	100s of Millions
02/17-02/19	Severe Weather	Australia	1	53,700+	525+ million
03/07-03/12	Flooding	New Zealand	0	7,800+	90+ million
03/28-04/05	Cyclone Debbie	Australia	14	72,767+	2.4+ billion
04/09-04/14	Cyclone Cook	Vanuatu, New Caledonia, New Zealand	1	Thousands	Millions
05/04-05/10	Cyclone Donna	South Pacific Islands, New Zealand	2	Hundreds	Millions
07/21-07/23	Winter Weather	New Zealand	0	Thousands	10s of millions
10/15-10/19	Flooding	Australia	7	Hundreds	10s of 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 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.



## Contact Information

**Adam Podlaha**

Head of Impact Forecasting  
Aon Benfield Analytics  
Impact Forecasting  
+44.20.7522.3820  
[adam.podlaha@aonbenfield.com](mailto:adam.podlaha@aonbenfield.com)

**Steve Bowen**

Director (Meteorologist)  
Aon Benfield Analytics  
Impact Forecasting  
+1.312.381.5883  
[steven.bowen@aonbenfield.com](mailto:steven.bowen@aonbenfield.com)

**Claire Darbinyan**

Associate Director (Meteorologist)  
Aon Benfield Analytics  
Impact Forecasting  
+65.6645.0110  
[claire.darbinyan@aonbenfield.com](mailto:claire.darbinyan@aonbenfield.com)

**Michal Lörinc**

Catastrophe Analyst  
Aon Benfield Analytics  
Impact Forecasting  
+420.234.618.358  
[michal.lorinc@aonbenfield.com](mailto:michal.lorinc@aonbenfield.com)

## About Aon Benfield

Aon Benfield, a division of Aon plc (NYSE: AON), is the world's leading reinsurance intermediary and full-service capital advisor. We empower our clients to better understand, manage and transfer risk through innovative solutions and personalized access to all forms of global reinsurance capital across treaty, facultative and capital markets. As a trusted advocate, we deliver local reach to the world's markets, an unparalleled investment in innovative analytics, including catastrophe management, actuarial and rating agency advisory. Through our professionals' expertise and experience, we advise clients in making optimal capital choices that will empower results and improve operational effectiveness for their business. With more than 80 offices in 50 countries, our worldwide client base has access to the broadest portfolio of integrated capital solutions and services. To learn how Aon Benfield helps empower results, please visit [aonbenfield.com](http://aonbenfield.com).

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](http://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.