HTML CODE FOR NATURAL DISATSTER

<!doctype html><html><head><meta name="viewport" content="width=device-width, initialscale=1"/><title>Natural Disasters - Our World in Data</title><meta name="description" content="Where and from which disasters do people die? What can we do to prevent deaths from natural disasters?"/><link rel="canonical" href="https://ourworldindata.org/natural-disasters"/><link rel="alternate" type="application/atom+xml" href="/atom.xml"/><link rel="apple-touch-icon" sizes="180x180" href="/apple-touch-icon.png"/><meta property="fb:app_id" content="1149943818390250"/><meta property="og:url" content="https://ourworldindata.org/naturaldisasters"/><meta property="og:title" content="Natural Disasters"/><meta property="og:description" content="Where and from which disasters do people die? What can we do to prevent deaths from natural disasters?"/><meta property="og:image" content="https://ourworldindata.org/uploads/2019/11/Annual-deaths-by-natural-disaster-768x459.png"/><meta property="og:site_name" content="Our World in Data"/><meta name="twitter:card" content="summary_large_image"/><meta name="twitter:site" content="@OurWorldInData"/><meta name="twitter:creator" content="@OurWorldInData"/><meta name="twitter:title" content="Natural Disasters"/><meta name="twitter:description" content="Where and from which disasters do people die? What can we do to prevent deaths from natural disasters?"/><meta name="twitter:image" content="https://ourworldindata.org/uploads/2019/11/Annual-deaths-by-natural-disaster-768x459.png"/><link href="https://fonts.googleapis.com/css?family=Lato:300,400,400i,700,700i|Playfair+Display:400,600,70 0&display=swap" rel="stylesheet"/><link rel="stylesheet" href="https://ourworldindata.org/assets/commons.css"/><link rel="stylesheet" href="https://ourworldindata.org/assets/owid.css"/><meta name="citation title" content="Natural Disasters"/><meta name="citation_fulltext_html_url" content="https://ourworldindata.org/naturaldisasters"/><meta name="citation_fulltext_world_readable" content=""/><meta name="citation_publication_date" content="2014/06/03"/><meta name="citation_journal_title" content="Our World in Data"/><meta name="citation_journal_abbrev" content="Our World in Data"/><meta name="citation author" content="Hannah Ritchie"/><meta name="citation author" content="Max Roser"/></head><body class=""><header class="site-header"><div class="wrapper sitenavigation-bar"><div class="site-logo">Our World
br/> in Data</div><nav class="sitenavigation"><div class="topics-button-wrapper"><div class="label">Articles
by topic</div><div class="icon"><svg width="12" height="6"><path d="M0,0 L12,0 L6,6 Z" fill="currentColor"></path></svg></div></div><div><div class="site-primary-navigation"><form class="HeaderSearch" action="/search" method="GET"><input type="search" name="q" placeholder="Search..."/><div class="icon"><svg aria-hidden="true" focusable="false" data-prefix="fas" data-icon="magnifying-glass" class="svg-inline--fa fa-magnifyingglass "role="img" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 512 512"><path fill="currentColor" d="M416 208c0 45.9-14.9 88.3-40 122.7L502.6 457.4c12.5 12.5 12.5 32.8 0 45.3s32.8 12.5-45.3 0L330.7 376c-34.4 25.2-76.8 40-122.7 40C93.1 416 0 322.9 0 208S93.1 0 208 0S416 93.1 416 208zM208 352c79.5 0 144-64.5 144-144s-64.5-144-144564 128.5 64 208s64.5 144 144 144z"></path></svg></div></form>Latestli>Aboutli>Donate</div><div class="site-secondary-navigation"><ul class="site-secondary-navigation secondary-links">All charts href="https://sdg-tracker.org" data-track-note="header-navigation">Sustainable Development Goals Tracker</div></div></div></div></ass="header-logos-wrapper"></div><div class="mobile-site-navigation"><button data-track-note="mobile-search-button"><svg ariahidden="true" focusable="false" data-prefix="fas" data-icon="magnifying-glass" class="svg-inline--fa famagnifying-glass "role="img" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 512 512"><path fill="currentColor" d="M416 208c0 45.9-14.9 88.3-40 122.7L502.6 457.4c12.5 12.5 12.5 32.8 0 45.3s-32.8 12.5-45.3 0L330.7 376c-34.4 25.2-76.8 40-122.7 40C93.1 416 0 322.9 0 208S93.1 0 208 0S416 93.1 416 208zM208 352c79.5 0 144-64.5 144-144s-64.5-144-144S64 128.5 64 208s64.5 144 144 144z"></path></svg></button><button data-track-note="mobile-newsletter-button"><svg ariahidden="true" focusable="false" data-prefix="fas" data-icon="envelope-open-text" class="svg-inline--fa fa-envelope-open-text "role="img" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 512 512"><path fill="currentColor" d="M215.4 96H144 107.8 96v8.8V144v40.4 89L.2 202.5c1.6-18.1 10.9-34.9 25.7-45.8L48 140.3V96c0-26.5 21.5-48 48-48h76.6l49.9-36.9C232.2 3.9 243.9 0 256 0s23.8 3.9 33.5 11L339.4 48H416c26.5 0 48 21.5 48 48v44.3l22.1 16.4c14.8 10.9 24.1 27.7 25.7 45.8L416 273.4v-89V144 104.8 96H404.2 368 296.6 215.4zM0 448V242.1L217.6 403.3c11.1 8.2 24.6 12.7 38.4 12.7s27.3-4.4 38.4-12.7L512 242.1V448v0c0 35.3-28.7 64-64 64H64c-35.3 0-64-28.7-64-64v0zM176 160H336c8.8 0 16 7.2 16 16s-7.2 16-16 16H176c-8.8 0-16-7.2-16-16s7.2-16 16-16zm0 64H336c8.8 0 16 7.2 16 16s-7.2 16-16 16H176c-8.8 0-16-7.2-16-16s7.2-16 16-16z"></path></svg></button><button data-track-note="mobilehamburger-button"><svg aria-hidden="true" focusable="false" data-prefix="fas" data-icon="bars" class="svg-inline--fa fa-bars " role="img" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 448 512"><path fill="currentColor" d="M0 96C0 78.3 14.3 64 32 64H416c17.7 0 32 14.3 32 32s-14.3 32-32 32H32C14.3 128 0 113.7 0 96zM0 256c0-17.7 14.3-32 32-32H416c17.7 0 32 14.3 32 32s-14.3 32-32 32H32c-17.7 0-32-14.3-32-32zM448 416c0 17.7-14.3 32-32 32H32c-17.7 0-32-14.3-32-32s14.3-32 32-32H416c17.7 0 32 14.3 32 32z"></path></svg></button></div></header><div class="alertbanner"><div class="content"><div class="text">COVID-19 vaccinations, cases, excess mortality, and much more</div>Explore our COVID-19 data</div></div><main><article class="page" with-sidebar large-banner"><div class="offset-header"><header class="article-header"><div class="article-titles"><h1 class="entry-title">Natural Disasters</h1></div><div class="authorsbyline">by Hannah Ritchie and Max Roser</div><div class="blog-info">This article was first published in 2014. It was last updated in November 2021.</div><div class="tools"><svg aria-hidden="true" focusable="false" data-prefix="fab" data-icon="creativecommons" class="svg-inline--fa fa-creative-commons" role="img" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 496 512"><path fill="currentColor" d="M245.83" 214.871-33.22 17.28c-9.43-19.58-25.24-19.93-27.46-19.93-22.13 0-33.22 14.61-33.22 43.84 0 23.57 9.21 43.84 33.22 43.84 14.47 0 24.65-7.09 30.57-21.26|30.55 15.5c-6.17 11.51-25.69 38.98-65.1 38.98-22.6 0-73.96-10.32-73.96-77.05 0-58.69 43-77.06 72.63-77.06 30.72-.01 52.7 11.95 65.99 35.86zm143.05 0I-32.78 17.28c-9.5-19.77-25.72-19.93-27.9-19.93-22.14 0-33.22 14.61-33.22 43.84 0 23.55 9.23 43.84 33.22 43.84 14.45 0 24.65-7.09 30.54-21.26|31 15.5c-2.1 3.75-21.39 38.98-65.09 38.98-22.69 0-73.96-9.87-73.96-77.05 0-58.67 42.97-77.06 72.63-77.06 30.71-.01 52.58 11.95 65.56 35.86zM247.56 8.05C104.74 8.05 0 123.11 0 256.05c0 138.49 113.6 248 247.56 248 129.93 0 248.44-100.87 248.44-248 0-137.87-106.62-248-248.44-248zm.87 450.81c-112.54 0-203.7-93.04-203.7-202.81 0-105.42 85.43-203.27 203.72-203.27 112.53 0 202.82 89.46 202.82 203.26-.01 121.69-99.68 202.82-202.84 202.82z"></path></svg>Reuse our work freely<svg aria-hidden="true" focusable="false" data-prefix="fas" data-icon="book" class="svg-inline--fa fa-book " role="img" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 448 512"><path fill="currentColor" d="M96 0C43 0" 0 43 0 96V416c0 53 43 96 96 96H384h32c17.7 0 32-14.3 32-32s-14.3-32-32-32V384c17.7 0 32-14.3 32-32V32c0-17.7-14.3-32-32-32H384 96zm0 384H352v64H96c-17.7 0-32-14.3-32-32s14.3-32 32-32zm32-240c0-8.8 7.2-16 16-16H336c8.8 0 16 7.2 16 16s-7.2 16-16 16H144c-8.8 0-16-7.2-16-16zm16 48H336c8.8 0 16 7.2 16 16s-7.2 16-16 16H144c-8.8 0-16-7.2-16-16s7.2-16 16-16z"></path></svg>Cite this research</div></header></div><div class="content-wrapper"><div class="toc-wrapper"><aside class="entry-sidebar"><nav class="entry-toc">Natural Disastersli class="section">Summaryliclass="section">Natural disasters kill tens of thousands each yearIi>Ii> class="section">What share of deaths are from natural disasters?li class="section">Number of deaths from natural disastersclass="subsection">Annual deaths from natural disastersclass="subsection">Average number of deaths by decadeclass="subsection">Number of deaths by type of natural disasterli>Injuries and displacement from disastersli class="section">Natural disasters by typeclass="subsection">Earthquakesli class="subsection">VolcanoesLandslidesclass="subsection">Famines & amp; Droughtsli class="subsection">Hurricanes, Tornados, and Cyclones<li class="subsection">Extreme precipitation and floodingclass="subsection"><a href="#extreme-temperature-heat-cold"

data-track-note="toc-link">Extreme Temperature (Heat & D)class="subsection">Wildfiresli class="subsection">Lightningclass="section">Economic costsclass="subsection">Global disaster costsli class="subsection">Disaster costs by country class="section">Not all deaths are equal: How many deaths make a natural disaster newsworthy?li>Link between poverty and deaths from natural disastersDefinitions & amp; MetricsData Qualityli class="section">Data Sourcesclass="section">Endnotesclass="section">Licenceli class="section">Citation</nav><div class="toggle-toc"><button data-track-note="page-toggle-toc" aria-label="Open table of contents"><svg aria-hidden="true" focusable="false" data-prefix="fas" dataicon="bars" class="svg-inline--fa fa-bars " role="img" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 448 512"><path fill="currentColor" d="M0 96C0 78.3 14.3 64 32 64H416c17.7 0 32 14.3 32 32s-14.3 32-32 32H32C14.3 128 0 113.7 0 96zM0 256c0-17.7 14.3-32 32-32H416c17.7 0 32 14.3 32 32s-14.3 32-32 32H32c-17.7 0-32-14.3-32-32zM448 416c0 17.7-14.3 32-32 32H32c-17.7 0-32-14.3-32-32s14.3-32 32-32H416c17.7 0 32 14.3 32 32z"></path></svg>Contents</button></div></aside></div><div class="offset-content"><div class="content-and-footnotes"><div class="article-content"><section><figure data-explorersrc="https://ourworldindata.org/explorers/naturaldisasters?facet=none&Disaster+Type=All+disasters&Impact=Deaths&Timespan=Decadal +average&Per+capita=false&country=~OWID_WRL" class="wp-block-full-content-width" style="width: 100%; min-height: 740px; max-height: 950px; height: 100vh; border: 0px none !important;"><div class="loading-indicator"></div></figure><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-styl block-column">→ Open the Data Explorer in a new tab.<hr class="wp-block-separator"><div class="wp-block-owid-summary">

<h2 id="summary">Summary</h2>

Natural disasters kill on average 45,000 people per year, globally.<a href="https://ourworldindata.org/natural-disasters#what-share-of-deaths-are-from-natural-disasters#what-share-disas

disasters">Globally, disasters were responsible for 0.1% of deaths over the past decade. This was highly variable, ranging from 0.01% to 0.4%.
disasters#natural-disasters-kill-tens-of-thousands-each-year">Deaths from natural disasters have seen a large decline over the past century – from, in some years, millions of deaths per year to an average of 60,000 over the past decade.
disasters#number-of-deaths-by-type-of-natural-disaster">Historically, droughts and floods were the most fatal disaster events. Deaths from these events are now very low – the most deadly events today tend to be earthquakes.
disasters#link-between-poverty-and-deaths-from-natural-disasters">Disasters affect those in poverty most heavily: high death tolls tend to be centered in low-to-middle income countries without the infrastructure to protect and respond to events.

</div></div><div class="wp-block-column"><div class="wp-stickycontainer"></div></div></div><div class="block-wrapper" data-reactroot=""><div data-variation="fullwidth" data-default-open="false" class="wp-block-owid-additional-information"><h3 class="additionalinformation__heading" data-track-note="additional-information-toggle"><svg aria-hidden="true"
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our interactive charts on Natural Disasters
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href="https://ourworldindata.org/grapher/acres-burned-per-wildfire-usa">Average acres burned per wildfire in the United Statesclass="">Death rate from natural disastersli>Death rates from natural disastersli class="">Deaths from earthquakesDeaths from natural disasters as a share of total deathsclass="">Deaths from natural disasters by typeclass="">Decadal average: Death rates from natural disastersli>i> class="">Decadal average: Number of deaths from natural disastersclass="">Direct disaster economic lossDirect disaster economic loss as a share of GDP class="">Direct economic loss attributed to disastersli>class=""><img

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index</span></a><a href="https://ourworldindata.org/grapher/economic-damage-
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from-natural-disasters.svg" loading="lazy" data-no-lightbox="true" data-no-img-formatting="true"
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usa">Wildfire acres burned in the United States</div><div class="wp-block-column" id="all-chartspreview"><figure data-grapher-src="https://ourworldindata.org/grapher/ace-north-atlantichurricanes"></figure><div class="gallery-navigation"><button disabled="" class="gallery-arrow prev"><svg aria-hidden="true" focusable="false" data-prefix="fas" data-icon="arrow-left-long" class="svg-inline--fa fa-arrow-left-long" role="img" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 512 512"><path fill="currentColor" d="M109.3 288L480 288c17.7 0 32-14.3 32-32s-14.3-32-32-32l-370.7 0 73.4-73.4c12.5-12.5 12.5-32.8 0-45.3s-32.8-12.5-45.3 0l-128 128c-12.5 12.5-12.5 32.8 0 45.3l128 128c12.5 12.5 32.8 12.5 45.3 0s12.5-32.8 0-45.3L109.3 288z"></path></svg></button><div class="gallery-pagination">Chart 1 of 58</div><button class="gallery-arrow next"><svg ariahidden="true" focusable="false" data-prefix="fas" data-icon="arrow-left-long" class="svg-inline--fa faarrow-left-long fa-flip-horizontal "role="img" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 512 512"><path fill="currentColor" d="M109.3 288L480 288c17.7 0 32-14.3 32-32s-14.3-32-32l-370.7 0 73.4-73.4c12.5-12.5 12.5-32.8 0-45.3s-32.8-12.5-45.3 0l-128 128c-12.5 12.5-12.5 32.8 0 45.3l128 128c12.5 12.5 32.8 12.5 45.3 0s12.5-32.8 0-45.3L109.3 288z"></path></svg></button></div></div></div></div>

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The number of deaths from natural disasters can be highly variable from year-to-year; some years pass with very few deaths before a large disaster event claims many lives.If we look at the average over the past decade, approximately 45,000 people globally died from natural disasters each year. This represents around 0.1% of global deaths./p>In the visualizations shown here we see the annual variability in the number and share of deaths from natural disasters in recent decades.What we see is that in many years, the number of deaths can be very low – often less than 10,000, and accounting for as low as 0.01% of total deaths. But we also see the devastating impact of shock events: the 1983-85 famine/a> and drought in Ethiopia; the famine/a> and drought in Ethiopia; the famine/a> and drought in Ethiopia; the famine

href="https://en.wikipedia.org/wiki/2004_Indian_Ocean_earthquake_and_tsunami">2004 Indian Ocean earthquake and tsunami; Cyclone Nargis which struck Myanmar in 2008; and the 2010 Port-au-Prince earthquake in Haiti. All of these events pushed global disasters deaths over 200,000 – more than 0.4% of deaths in these years.
p>Low-frequency, high-impact events such as earthquakes and tsunamis are not preventable, but such high losses of human life are. We know from historical data that the world has seen a significant reduction in disaster deaths through earlier prediction, more resilient infrastructure, emergency preparedness, and response systems.
br>Those at low incomes are often the most vulnerable to disaster events: improving living standards, infrastructure and response systems in these regions will be key to preventing deaths from natural disasters in the coming decades.

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href="https://en.wikipedia.org/wiki/2010_Haiti_earthquake">Port-au-Prince earthquake. </div><div class="wp-block-column"><div class="wp-sticky-container"><figure data-grapher-src="https://ourworldindata.org/grapher/share-deaths-from-natural-disasters" class="grapherPreview">

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recent decade, this has often been less than 10,000). Even in peak years with high-impact events, the death toll has not exceeded 500,000 since the mid-1960s. when we consider the rate of population growth over this period. When we correct for population – showing this data in terms of death rates (measured per 100,000 people) – we see an even greater decline over the past century. This chart can be viewed here.The annual number of deaths from natural disasters is also available by country since 1990. This can be explored in the interactive map.</div><div class="wp-block-column"><div class="wp-sticky-container"><figure data-explorer-src="https://ourworldindata.org/explorers/naturaldisasters?facet=none&Disaster+Type=All+disasters&Impact=Deaths&Timespan=Annual& amp;Per+capita=false&country=~OWID_WRL&hideControls=true" style="width: 100%; height: 600px; border: 0px none;"><div class="loading-indicator"></div></figure><figure data-explorersrc="https://ourworldindata.org/explorers/naturaldisasters?tab=map&facet=none&Disaster+Type=All+disasters&Impact=Deaths&Tim espan=Annual&Per+capita=false&country=~OWID_WRL&hideControls=true" style="width: 100%; height: 600px; border: 0px none;"><div class="loading-indicator"></div></div></div></div></div></div></div> deaths-by-decade">Average number of deaths by decade</h3><div class="wp-block-columns is-style-sticky-right"><div class="wpblock-column">In the chart we show global deaths from natural disasters since 1900, but rather than reporting annual deaths, we show the annual average by decade. The data for this chart can be found in the table presented here.As we see, over the course of the 20th century there was a significant decline in global deaths from natural disasters. In the early 1900s, the annual average was often in the range of 400,000 to 500,000 deaths. In the second half of the century and into the early 2000s, we have seen a significant decline to less than 100,000 – at least five times lower than these peaks.
<This decline is even more impressive when we consider the rate of population growth over this period. When we correct for population – showing this data in terms of death rates (measured per 100,000 people) - then we see a more than 10-fold decline over the past century. This chart can be viewed here.</div><div class="wp-blockcolumn"><div class="wp-sticky-container"><figure data-graphersrc="https://ourworldindata.org/grapher/decadal-deaths-disasters-type?country=OWID WRL~" class="grapherPreview">

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Click to open interactive version

</div>

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<div class="wp-block-column">

With almost minute-by-minute updates on what's happening in the world, we are constantly reminded of the latest disaster. These stories are, of course, important but they do not give us a sense of how the toll of disasters has changed over time.

For most of us, it is hard to know whether any given year was a particularly deadly one in the context of previous years.

p>To understand the devastating toll of disasters today, and in the past, we have built a Natural Disasters Data Explorer

which provides estimates of fatalities, displacement and economic damage for every country since 1900. This is based on data sourced from EM-DAT; a project that undertakes the important work of building these incredibly detailed histories of disasters.<<sup> In this visualization I give a sense of how the global picture has evolved over the last century. It shows the estimated annual death toll – from all disasters at the total death toll for that year.

I've labeled most of the years with the largest death tolls. This usually provokes the follow-up question: "Why? What event happened?". So I've also noted large-scale events that contributed to the majority – but not necessarily all of the deaths in that year.

For example, the estimated global death toll from storms in 2008 was approximately 141,000. 138,366 of these deaths occurred in Cyclone Margis, which struck Myanmar, and is labeled on the chart.

What we see is that in the 20th century, it was common to have years where the death toll was in the millions. This was usually the result of major droughts or floods. Often these would lead to famines. My colleague Joe Hasell looks at the long history of famines here.

Improved food security, resilience to other disasters, and better national and international responses mean that the world has not experienced death tolls of this scale in many decades. Famines today are usually driven by civil war and political unrest.

In most years, the death toll from disasters is now in the range of 10,000 to 20,000 people. In the most fatal years – which tend to be those with major earthquakes or cyclones – this can reach tens to hundreds of thousands.

This trend does not mean that disasters have become less frequent, for less intense. It means the world today is much better at preventing deaths from disasters than in the past. This will become increasingly important in our response and adaptation to climate change

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</div></section <section><div class="section-heading"><div class="wrapper"><div><h2 id="injuries-anddisplacement-from-disasters">Injuries and displacement from disasters</h2></div></div></div><div class="wp-blockcolumns is-style-sticky-right"><div class="wp-block-column">Human impacts from natural disasters are not fully captured in mortality rates. Injury, homelessness, and displacement can all have a significant impact on populations.The visualisation below shows the number of people displaced internally (i.e. within a given country) from natural disasters. Note that these figures report on the basis of new cases of displaced persons: if someone is forced to flee their home from natural disasters more than once in any given year, they will be recorded only once within these statistics.Interactive charts on the following global impacts are available using the links below:Injuries: number of people injured is defined as "People suffering from physical injuries, trauma or an illness requiring immediate medical assistance as a direct result of a disaster."Homelessness: number of people homeless is defined as "Number of people whose house is destroyed or heavily damaged and therefore need shelter after an event."a href="https://ourworldindata.org/explorers/naturaldisasters?tab=map&facet=none&Disaster+Type=All+disasters&Impact=Affected&Ti mespan=Decadal+average&Per+capita=false&country=~OWID_WRL" target="_blank" rel="noreferrer noopener">Affected: number of people affected is defined as "People requiring immediate assistance during a period of emergency, i.e. requiring basic survival needs such as food, water, shelter, sanitation and immediate medical assistance." href="https://ourworldindata.org/explorers/naturaldisasters?tab=map&facet=none&Disaster+Type=All+disasters&Impact=Total+affected&a mp;Timespan=Decadal+average&Per+capita=false&country=~OWID WRL" target=" blank" rel="noreferrer noopener">Total number affected: total number of people affected is defined as "the sum of the injured, affected and left homeless after a disaster."</div><div class="wp-block-column"><div class="wp-sticky-container"><figure datagrapher-src="https://ourworldindata.org/grapher/internally-displaced-persons-from-disasters" class="grapherPreview">

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76,64,142.76,142.76a142.17,142.17,0,0,1-24.13,79.43A27.47,27.47,0,0,1,239.76,234.78Z"
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Click to open interactive version

</div>

</figure></div></div></div></div></section<section><div class="section-heading"><div
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32l0 306.7L54.6 265.4c-12.5-12.5-32.8-12.5-45.3 0s-12.5 32.8 0 45.3l160
160z"></path></svg>Earthquakes||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-||scalar-|

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370.8 224 64c0-17.7-14.3-32-32s-32 14.3-32 32l0 306.7L54.6 265.4c-12.5-12.5-32.8-12.5-45.3 0s-
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370.8 224 64c0-17.7-14.3-32-32s-32 14.3-32 32l0 306.7L54.6 265.4c-12.5-12.5-32.8-12.5-45.3 0s-
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370.8 224 64c0-17.7-14.3-32-32s-32 14.3-32 32l0 306.7L54.6 265.4c-12.5-12.5-32.8-12.5-45.3 0s-
12.5 32.8 0 45.3l160 160z"></path></svg><span>Extreme Temperature (Heat & Death of the Company o
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64c0-17.7-14.3-32-32-32s-32 14.3-32 32l0 306.7L54.6 265.4c-12.5-12.5-32.8-12.5-45.3 0s-12.5 32.8 0
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32.8-12.5-45.3 0s-12.5 32.8 0 45.3|160
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href="https://www.ngdc.noaa.gov/nndc/struts/form?t=101650&s=1&d=1" target="_blank" rel="noopener noreferrer">National Geophysical Data Center (NGDC) of the NOAA as 'significant' earthquakes. Significant earthquakes are those which are large enough to cause notable damage. They must meet at least one of the following criteria: caused deaths, moderate damage (\$1 million or more), magnitude 7.5 or greater, Modified Mercalli Intensity (MMI) X or greater, or generated a tsunami.
Available data — which you can explore in the chart below — extends back to 2150 BC. But we should be aware that most recent records will be much more complete than our long-run historic estimates. An increase in the number of recorded earthquakes doesn't necessarily mean this was the true trend over time. By clicking on a country in the map below, you can view it's full series of known significant earthquakes.
/p></div><div class="wp-block-column"><div class="wp-sticky-container"><div class="wp-sticky-container"><div class="wp-sticky-container"><div class="wp-sticky-container"><div class="wp-sticky-container"><div class="wp-sticky-container"><div class="wp-sticky-container"></div class="wp-sticky-container"></documents</dr>

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</figure></div></div><div><div><div><div><clouders="wp-block-columns is-style-sticky-right"><div class="wp-block-column"><h4 id="deaths-from-earthquakes">Deaths from earthquakes</h4></div><div class="wp-block-column"><div class="wp-sticky-container"><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-column">Alongside estimates of the number of earthquake events, the National Geophysical Data Center (NGDC) of the NOAA also publish estimates of the number of deaths over this long-term series. In the chart below we see the estimated mortality numbers from 2000 BC through to 2017.These figures can be found for specific countries using the "change country" function in the bottom-left of the chart, or by selecting the "map" on the bottom-right.At the global level we see that earthquake deaths have been a persistent human risk through time.</div><div class="wp-block-column"><div class="wp-sticky-container"><figure data-grapher-src="https://ourworldindata.org/grapher/earthquake-deaths" class="grapherPreview">

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</svg>

Click to open interactive version

</div>

</figure></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wpblock-column"><h4 id="what-were-the-world-s-deadliest-earthquakes">What were the world's deadliest earthquakes?</h4></div><div class="wp-block-column"><div class="wp-stickycontainer"></div></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-blockcolumn">The number of people dying in natural disasters is lower today than it was in the past, the world has become more resilient.Earthquakes, however, can still claim a large number of lives. Whilst historically floods, droughts and epidemics dominated disaster deaths, a high annual death toll now often results from a major earthquake and possibly a tsunami caused by them. Since 2000, the two peak years in annual death tolls (reaching 100s of thousands) were 2004 and 2010. Earthquake deaths accounted for 93 percent and 69 percent of such deaths, respectively. In fact, both events (the Sumatra earthquake and tsunami of 2004, and Port-au-Prince earthquake in 2010) are in the deadliest earthquake rankings below.What have been the most deadly earthquakes in human history? In the visualization we have mapped the top 10 rankings of known earthquakes which resulted in the largest number of deaths.<sup> This ranking is based on mortality estimates from the NOAA's National Geophysical Data Center (NGDC).<sup> Clicking on the visualization will open it in higher-resolution. This ranking is also summarized in table form. Shaanxi, China in 1556. It's estimated to have killed 830,000 people. This is more than twice that of the second most fatal: the recent Port-au-Prince earthquake in Haiti in 2010. It's reported that 316,000 people died as a result.⁵Two very recent earthquakes — the Sumatra earthquake and tsunami of 2004, and 2010 Port-au-Prince earthquake — feature amongst the most deadly in human history. But equally, some of the most fatal occurred in the very distant past. Making the top three was the earthquake in Antakya (Turkey) in the year 115. Both old and very recent feature near the top the list. The deadly nature earthquakes has been a persistent threat throughout our history.</div><div class="wp-block-column"><div class="wp-sticky-container"><div class="wp-block-image"><figure class="aligncenter"><img loading="lazy" width="750" height="508" src="https://ourworldindata.org/uploads/2018/10/Deadliestearthquakes-750x508.png" alt="Deadliest earthquakes" class="wp-image-20882"

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RankingLocation<th class="column-
3">YearEstimated death tollEarthquake
magnitude Additional information
</thead>
1Shaanxi, China<td class="column-
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6">More than <a href="https://en.wikipedia.org/wiki/1556 Shaanxi earthquake">97 counties in
China</a> were affected. A 520-mile wide area destroyed. In some counties it's estimated that up to
60% of the population died. Such catastrophic losses are attributed to loess cave settlements, which
collapsed as a result.
2Port-au-Prince, Haiti<td class="column-
3">2010316,0007<td class="column-
6">Death toll is still disputed. Here we present the adopted figure by the NGDC of the NOAA (for
consistency with other earthquakes); this is the figure—
Haitian government. Some sources suggest a lower figure of 220,000. In the latter case, this event would
fall to 7th place in the above rankings.
```

3Antakya, Turkey115260,0007.5Antioch (ancient ruins which lie near the modern city Antakya) and surrounding areas suffered severe damage. Apamea was <a</pre>

href="https://www.sciencedirect.com/science/article/pii/S0012821X03001444">also destroyed and Beirut suffered severe damage. A local <a href="https://www.earth-

prints.org/bitstream/2122/908/1/01Sbeinati.pdf">tsunami was triggered causing damage to the coast of Lebanon.

4Antakya, Turkey525250,00075556566<td class="colum

5Tangshan, China1976242,7697.5Reported that the earthquake risk had been greatly underestimated meaning almost all buildings and structures were designed and built without seismic considerations. Estimated that https://authors.library.caltech.edu/26539/">up to 85% of buildings collapsed. Tangshan therefore large comprised of unreinforced brick buildings which resulted in a large death toll.

6Gyzndzha, Azerbaijan230,0001139230,0005">UnknownOften termed the Ganja earthquake. Much less is documented on the specific details of this event.

7Sumatra, Indonesia2004227,8999.1Earthquake in Indian Ocean off the coast of Sumatra resulted in a series of large tsunamis (ranging 15 to 30 metres in height). Victims across 14 countries in the regions with Indonesia being the hardest-hit, followed by Sri Lanka, India and Thailand. There was no tsunami warning system in place.

8Damghan, Iran856200,0007.9Estimated that extent of the damage area was 220 miles long. It's also hypothesised that the ancient city of Šahr-e Qumis was so badly damaged that it was abandoned after the earthquake.

8Gansu, China1920200,0008.3200,0008.3

9Dvin, Armenia893150,000UnknownCity of Dvin was destroyed, with the collapse of most buildings, defensive walls and palaces; https://www.earth-

prints.org/bitstream/2122/1795/1/22%20hasrat'yan.pdf">estimated that only 100 buildings were left standing. With its city defences ruined, Dvin was taken over and turned into a military base by Muhammad ibn Abi'l-Saj, the Sajid emir of Adharbayjan.

10Tokyo, Japan1923142,8077.9More than half of brick buildings, and 10% of reinforced structures collapsed. Caused a tsunami with height up to 12m. Large fires broke out; combined with a large tornado, these spread quickly.

</div></div></div></div></div></div></div> href="#volcanoes"></h3><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-s column"><h4 id="number-of-significant-volcanic-eruptions">Number of significant volcanic eruptions</h4></div><div class="wpblock-column"><div class="wp-sticky-container"></div></div></div><div class="wp-block-columns isstyle-sticky-right"><div class="wp-block-column">There are a large number of volcanoes across the world which are volcanically active, but display little or only very low-level activity.
 lor map we see the number of significant volcanic eruptions which occur in each country in a given year. A significant eruption is classified as one that meets at least one of the following criteria: caused fatalities, caused moderate damage (approximately \$1 million or more), with a Volcanic Explosivity Index of 6 or larger, caused a tsunami, or was associated with a major earthquake.<sup>Estimates of volcanic eruptions are available dating back as early as 1750 BCE, however, the data completeness for long historic events will be much lower than in the recent past.</div><div class="wp-block-column"><div class="wp-stickycontainer"><figure data-grapher-src="https://ourworldindata.org/grapher/significant-volcaniceruptions" class="grapherPreview">

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</svg>

Click to open interactive version

</div>

</figure></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-column"><h4 id="deaths-from-volcanic-eruptions">Deaths from volcanic eruptions</h4></div><div class="wp-block-columns is-style-sticky-container"></div></div><div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-column">In the visualization we see the number of deaths from significant volcanic eruptions across the world. Using the timeline on the map we can see the frequency of volcanic activity deaths over time.
br>br>deaths over the past century we see several high-impact events: the Nevado del Ruiz eruptionIn Colombia in 1985; the Mount Pelée eruption in Martinique in 1902; and 1883 eruption of KrakatoaIn Indonesia.In In Indonesia.In In Indonesia.In In Indonesia.In In Indones

<div class="interactionNotice">

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76,64,142.76,142.76a142.17,142.17,0,0,1-24.13,79.43A27.47,27.47,0,0,1,239.76,234.78Z"
transform="translate(0 -0.41)"></path>
</svg></span>
                    <span class="label">Click to open interactive version</span>
                 </div>
              </a>
           </figure></div></div></div></div></div></div></div></div>
href="#landslides"></a></h3><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-sticky-right"></d>
column">This visualization – sourced from the NASA Socioeconomic Data And Applications Center
(SEDAC) – shows the distribution of mortality risk from landslides across the world.<br/>
<br/>
d.<br/>
dr>As we would
expect, the risks of landslides are much greater close to highly mountainous regions with dense
neighbouring populations. This makes the mortality risk highest across the Andes region in South
America, and the Himalayas across Asia.</div><div class="wp-block-column"><div class="wp-sticky-
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- SEDAC (NASA)0" class="wp-image-4331"
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(NASA)<a id="ref-7" class="ref" href="#note-
```

7">⁷</figcaption></figure></div></div></div></div></div></div>

droughts">Famines & amp; Droughts</h3><div

class="wp-block-columns is-style-sticky-right"><div class="wp-block-column">We cover the history of Famines in detail in our dedicated entry here. For this research we assembled a new global dataset on famines from the 1860s until 2016.In the visualization shown here we see trends in drought severity in the United States. Given is the annual data of drought severity, plus the 9-year average.Str>This is measured by the The Palmer Drought Severity Index: the average moisture conditions observed between 1931 and 1990 at a given location is given an index value of zero. A positive value means conditions are wetter than average, while a negative value is drier than average. A value between -2 and -3 indicates moderate drought, -3 to -4 is severe drought, and -4 or below indicates extreme drought.//p></div><div class="wp-block-column"><div class="wp-sticky-container"><figure data-grapher-src="https://ourworldindata.org/grapher/drought-severity-index-us" class="grapherPreview">

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<path fill="currentColor" opacity="0.6"
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transform="translate(0 -0.41)"></path>

</svg>

Click to open interactive version

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</figure></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div</di>

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76,64,142.76,142.76a142.17,142.17,0,0,1-24.13,79.43A27.47,27.47,0,0,1,239.76,234.78Z"
transform="translate(0 -0.41)"></path>

</svg>

Click to open interactive version

</div>

</figure></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-column"><h4 id="intensity-of-north-atlantic-hurricanes">Intensity of North Atlantic Hurricanes</h4></div><div class="wp-block-column"><div class="wp-block-column"></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-column">A key metric for assessing hurricane severity is their intensity, and the power they carry.
br>The visualizations here use two metrics to define this: the accumulated cyclone energy (ACE), an index that measures the activity of a cyclone season; and the power dissipation index of cyclones.</div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></di>

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transform="translate(0 -0.41)"></path>

</svg>

Click to open interactive version

</div>

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flooding</h3><div class="wpblock-columns is-style-sticky-right"><div class="wp-block-column"><h4 id="precipitationanomalies">Precipitation anomalies</h4></div><div class="wp-block-column"><div class="wp-stickycontainer"></div></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-stylecolumn">In the visualization shown we see the global precipitation anomaly each year; trends in the US-specific anomaly can be found here. This precipitation anomaly is measured relative to the century average from 1901 to 2000. Positive values indicate a wetter year than normal; negative values indicate a drier year.Also shown is US-specific data on the share of land area which experiences unusually high precipitation in any given year. </div><div class="wp-block-column"><div class="wp-sticky-container"></div></div></div><div class="wp-block-columns is-style-side-by-side"><div class="wp-block-column"><figure data-grapher-src="https://ourworldindata.org/grapher/global-precipitation-anomaly" class="grapherPreview">

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76,64,142.76,142.76a142.17,142.17,0,0,1-24.13,79.43A27.47,27.47,0,0,1,239.76,234.78Z"
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Click to open interactive version

</div>

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transform="translate(0 -0.41)"></path>

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Click to open interactive version

</div>

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href="#precipitation-extremes"></h4></div><div class="wp-block-column"><div class="wp-sticky-container"></div></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-column">We can look at precipitation anomalies over the course of year, however, flooding events are often caused by intense rainfall over much shorter periods. Flooding events tend to occur when there is extremely high rainfall over the course of hours or days.
The visualization here shows the extent of extreme one-day precipitation in the US. What we see is a general upwards trend in the extent of extreme rainfall in recent decades.
/p></div><div class="wp-block-column"><div class="wp-sticky-container"><figure data-grapher-src="https://ourworldindata.org/grapher/extreme-one-day-precipitation-usa" class="grapherPreview">

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transform="translate(0 -0.41)"></path>

</svg>

Click to open interactive version

</div>

 summer temperatures over time (defined as 'unusually high' in the context of historical records) we see an upward trend in recent decades.
</div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div>block-column">Figure data-grapher-src="https://ourworldindata.org/grapher/heat-wave-index-usa"class="grapherPreview">

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47.06L104,420.58v-276a40,40,0,0,1,80,0v200h8v-40a40,40,0,1,1,80,0v40h8v-
24a40,40,0,1,1,80,0v24h8a40,40,0,1,1,80,0Zm-256,80h-8v96h8Zm88,0h-8v96h8Zm88,0h-8v96h8Z"
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76,64,142.76,142.76a142.17,142.17,0,0,1-24.13,79.43A27.47,27.47,0,0,1,239.76,234.78Z"
transform="translate(0 -0.41)"></path>
</svg></span>
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temp usa v5 850x600"></div>

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47.06L104,420.58v-276a40,40,0,0,1,80,0v200h8v-40a40,40,0,1,1,80,0v40h8v-
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76,64,142.76,142.76a142.17,142.17,0,0,1-24.13,79.43A27.47,27.47,0,0,1,239.76,234.78Z"
transform="translate(0 -0.41)"></path>
</svg></span>
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            </div>
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</figure></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-column"><h4 id="cold-temperatures">Cold temperatures</h4></div><div class="wp-block-column"><div class="wp-sticky-container"></div><div><div><div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-column">Whilst we often focus on heatwave and warm temperatures in relation to weather extremes, extremely low temperatures can often have a high toll on human health and mortality.

lor
In the visualization here we show trends in the share of US land area experiencing unusually low winter temperatures. In recent years there appears to have been a declining trend in the extent of the US experiencing particularly cold winters.
/p></div><div class="wp-block-column"><div class="wp-sticky-container"><div class="wp-sticky-container"><div class="wp-sticky-container"><div class="wp-sticky-container"><div class="grapherPreview"></div></div></div></div></div></div></div></div></div></div></div>

<div class="interactionNotice">


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76,64,142.76,142.76a142.17,142.17,0,0,1-24.13,79.43A27.47,27.47,0,0,1,239.76,234.78Z"
transform="translate(0 -0.41)"></path>
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</svg>

Click to open interactive version

</div>

</figure></div></div></div><h3 id="wildfires">Wildfires</h3><div class="wp-block-columns is-style-sticky-right"><div class="wp-blockcolumn"><h4 id="us-wildfires">US Wildfires</h4></div><div class="wp-block-column"><div class="wp-stickycontainer"></div></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-stylecolumn">How are the frequency and extent of wildfires in the United States changing over time?In the charts below we provide three overviews: the number of wildfires, the total acres burned, and the average acres burned per wildfire. This data is shown from 1983 onwards, when comparable data recording began.
Over the past 30-35 years we notice three general trends in the charts below (although there is significant year-to-year variability): annual number of wildfires has not changed much;on average, the total acres burned has increased from the 1980s and 1990s into the 21st century;the combination of these two factors suggest that the average acres burned per wildfire has increased. been significant media coverage of the long-run statistics of US wildfires reported by the National Interagency Fire Center (NIFC). The original statistics are available back to the year 1926. When we look at this long-term series it suggests there has been a significant decline in acres burned over the past century. However, the NIFC explicitly state:

yo>clockquote class="wp-block-quote">Prior to 1983, sources of these figures are not known, or cannot be confirmed, and were not derived from the current situation reporting process. As a result the figures prior to 1983 should not be compared to later data.</blockquote>Representatives from the NIFC have again confirmed (see the Carbon Brief's coverage here>/strong>) that these historic statistics are not comparable to those since 1983. The lack of reliable methods of measurement and reporting mean some historic statistics may in fact be double or triple-counted in national statistics.
This means we cannot compare the recent data below with old, historic records. But it also doesn't confirm that acres burned today are higher than the first half of the 20th century. Historically, fires were an <a rel="noopener noreferrer"

href="https://www.fs.fed.us/research/sustain/docs/national-

reports/2003/data/documents/Indicator%2015/Indicator%2015.pdf" target=" blank">often-used method of clearing land for agriculture, for example. It's not implausible to expect that wildfires of the past may have been larger than today but the available data is not reliable enough to confirm this.</div><div class="wp-block-column"><div class="wp-sticky-container"></div></div></div></div class="wp-block-columns is-style-side-by-side"><div class="wp-block-column"><figure data-graphersrc="https://ourworldindata.org/grapher/wildfire-numbers-usa" class="grapherPreview">

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</svg>

Click to open interactive version

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76,64,142.76,142.76a142.17,142.17,0,0,1-24.13,79.43A27.47,27.47,0,0,1,239.76,234.78Z"
transform="translate(0 -0.41)"></path>
</svg></span>
              <span class="label">Click to open interactive version</span>
            </div>
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column"><div class="wp-sticky-container"><figure data-grapher-src="https://ourworldindata.org/grapher/acres-burned-per-wildfire-usa" class="grapherPreview">

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76,64,142.76,142.76a142.17,142.17,0,0,1-24.13,79.43A27.47,27.47,0,0,1,239.76,234.78Z"
transform="translate(0 -0.41)"></path>

</svg>

Click to open interactive version

</div>

</figure></div></div><div class="wp-block-column"></div></div><h3
id="lightning">Lightning class="deep-link" href="#lightning"></h3><div class="wp-block-columns
is-style-sticky-right"><div class="wp-block-column"><h4 id="long-term-trends-in-us-lightning-strikes">Long-term trends in US lightning strikes</h4></div><div class="wp-block-column"><div class="wp-sticky-container"></div></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-column">This chart shows the declining death rate due to lightning strikes in the US.
br> the first decade of the 20th century the average annual rate of deaths was 4.5 per million people in the US.
In the first 15 years of the 21st century the death rate had declined to an average of 0.12 deaths per million. This is a 37-fold reduction in the likelihood of being killed by lightning in the US.
//p></div><div class="wp-block-column"><div class="wp-sticky-container"><figure data-grapher-src="https://ourworldindata.org/grapher/fatality-rates-due-to-lightning-in-the-us"</p>
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<div class="interactionNotice">

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</svg>

Click to open interactive version

</div>

</figure></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wpblock-column"><h4 id="lightning-strikes-across-the-world">Lightning strikes across the world</h4></div><div class="wp-blockcolumn"><div class="wp-sticky-container"></div></div><div class="wp-block-columns is-stylesticky-right"><div class="wp-block-column">The map here shows the distribution of lightning strikes across the world. This is given as the lightning strike density – the average strikes per square kilometer each year.

ser>ln particular we see the high frequency of strikes across the Equatorial regions, especially across central Africa.</div><div class="wp-block-column"><div class="wp-stickycontainer"><div class="wp-block-image"><figure class="aligncenter"><img loading="lazy" width="750" height="465" src="https://ourworldindata.org/uploads/2014/06/ourworldindata_world-map-offrequency-of-lightning-strikes---wikipedia-nasa-data0-750x465.png" alt="World Map of Frequency of lightning strikes - Wikipedia [NASA data]0" class="wp-image-4334" srcset="https://ourworldindata.org/uploads/2014/06/ourworldindata world-map-of-frequency-oflightning-strikes---wikipedia-nasa-data0-750x465.png 750w,

https://ourworldindata.org/uploads/2014/06/ourworldindata_world-map-of-frequency-of-lightning-

strikes—-wikipedia-nasa-data0-150x93.png 150w,

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https://ourworldindata.org/uploads/2014/06/ourworldindata_world-map-of-frequency-of-lightning-strikes-—-wikipedia-nasa-data0.png 1290w" sizes="(max-width: 750px) 100vw, 750px" data-high-res-src="https://ourworldindata.org/uploads/2014/06/ourworldindata_world-map-of-frequency-of-lightning-strikes-—-wikipedia-nasa-data0.png"><figcaption>World map of frequency of lightning strikes — Wikipedia (NASA data)a id="ref-8" class="ref" href="#note-"

8">⁸</figcaption></figure></div></div></div>section><div class="sectionheading"><div class="wrapper"><div><h2 id="economic-costs">Economic costs</h2></div><div class="in-this-section"><div class="label">In this section</div><div class="border"></div></div><svg aria-hidden="true" focusable="false" data-prefix="fas" data-icon="arrow-down" class="svginline--fa fa-arrow-down "role="img" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 384 512"><path fill="currentColor" d="M169.4 470.6c12.5 12.5 32.8 12.5 45.3 0l160-160c12.5-12.5 12.5-32.8 0-45.3s-32.8-12.5-45.3 0L224 370.8 224 64c0-17.7-14.3-32-32-32s-32 14.3-32 32l0 306.7L54.6 265.4c-12.5-12.5-32.8-12.5-45.3 0s-12.5 32.8 0 45.3l160 160z"></path></syg>Global disaster costs<svg aria-hidden="true" focusable="false" data-prefix="fas" data-icon="arrow-down" class="svg-inline--fa fa-arrow-down" role="img" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 384 512"><path fill="currentColor" d="M169.4 470.6c12.5 12.5 32.8 12.5 45.3 0l160-160c12.5-12.5 12.5-32.8 0-45.3s-32.8-12.5-45.3 0L224 370.8 224 64c0-17.7-14.3-32-32s-32 14.3-32 32l0 306.7L54.6 265.4c-12.5-12.5-32.8-12.5-45.3 0s-12.5 32.8 0 45.3l160 160z"></path></svg>Disaster costs by country</div></div><h3 id="global-disaster-costs">Global disaster costs</h3><div class="wp-block-columns is-style-stickyright"><div class="wp-block-column">Natural disasters not only have devastating impacts in terms

class="deep-link" href="#global-disaster-costs"></h3><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-column">Natural disasters not only have devastating impacts in terms of the loss of human life, but can also cause severe destruction with economic costs.
br>When we look at global economic costs over time in absolute terms we tend to see rising costs. But, importantly, the world — and most countries — have also gotten richer. Global gross domestic product has increased <a

href="https://ourworldindata.org/grapher/world-gdp-over-the-last-two-

millennia?time=1900..2015">more than four-fold since 1970. We might therefore expect that for any given disaster, the absolute economic costs could be higher than in the past.
A more appropriate metric to compare economic costs over time is to look at them in relation to GDP. This is the indicator adopted by all countries as part of the UN Sustainable Development Goals to monitor progress on resilience to disaster costs.
br>In the chart shown here we see global direct disaster losses given as a share of GDP. There is notable year-to-year variability in costs – ranging from 0.15% to 0.5% of global GDP. In recent decades there has been no clear trending increase in damages when we take account of economic growth over this period.
p>This is also true when we look at damages specifically for weather-related disasters. This trend in damages relative to global GDP is also shown in the interactive chart.
p>/div><div class="wp-</p>

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76,64,142.76,142.76a142.17,142.17,0,0,1-24.13,79.43A27.47,27.47,0,0,1,239.76,234.78Z"
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transform="translate(0 -0.41)"></path>
</svg></span>
               <span class="label">Click to open interactive version</span>
            </div>
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</figure></div></div><h3 id="disaster-costs-by-country">Disaster costs by country</h3><div class="wp-block-columns is-stylesticky-right"><div class="wp-block-column">Since economic losses from disasters in relation to GDP
is the indicator adopted by all countries within the
UN Sustainable Development Goals, this data is also now reported for each country.

br>The map
shows direct disaster costs for each country as a share of its GDP. Here we see large variations by
country - a 100-fold difference ranging from less than 0.05% to 5%. This data can be found in absolute
terms here. </div><div class="wp-block-column"><div class="wp-sticky-container"><figure data-grapher-src="https://ourworldindata.org/grapher/direct-disaster-loss-as-a-share-of-gdp" class="grapherPreview">

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76,64,142.76,142.76a142.17,142.17,0,0,1-24.13,79.43A27.47,27.47,0,0,1,239.76,234.78Z"
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</svg>

Click to open interactive version

</div>

</figure></div></div></div></section> <section><div class="section-heading"><div class="wrapper"><div><h2 id="not-all-deaths-are-equal-how-many-deaths-make-a-natural-disasternewsworthy">Not all deaths are equal: How many deaths make a natural disaster newsworthy?</h2></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-column">How many deaths does it take for a natural disaster to be newsworthy? This is a question researchers Thomas Eisensee and David Strömberg asked in a 2007 study.⁹ The two authors found that for every person killed by a volcano, nearly 40,000 people have to die of a food shortage to get the same probability of coverage in US televised news.¹⁰ </div><div class="wp-block-column"><div class="wp-stickycontainer"></div></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-stylecolumn"><h4 id="the-type-of-disaster-matters">The type of disaster matters</h4></div><div class="wp-block-column"><div class="wp-block-column"></div class="wp-block-column"></dd></dr></r></r> sticky-container"></div></div><div><div class="wp-block-columns is-style-sticky-right"><div class="wpblock-column">In other words, the type of disaster matters to how newsworthy networks find it to be. The visualizations show the extent of this observed "news effect". The chart shows the proportion of each type of disaster that receives news coverage, and the second shows the "casualties ratio", which tells us—all else equal—how many casualties would make media coverage equally likely for each type of disaster.</div><div class="wp-block-column"><div class="wp-stickycontainer"></div></div></div></div><div class="wp-block-columns is-style-side-by-side"><div class="wp-block-column"><figure data-grapher-src="https://ourworldindata.org/grapher/news-coverage-of-disasters" class="grapherPreview">

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76,64,142.76,142.76a142.17,142.17,0,0,1-24.13,79.43A27.47,27.47,0,0,1,239.76,234.78Z"
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Click to open interactive version

</div>

</figure></div><div class="wp-block-column"><figure data-graphersrc="https://ourworldindata.org/grapher/how-many-deaths-does-it-take-for-a-disaster-to-receivenews-coverage" class="grapherPreview">

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76,64,142.76,142.76a142.17,142.17,0,0,1-24.13,79.43A27.47,27.47,0,0,1,239.76,234.78Z"
transform="translate(0 -0.41)"></path>

</svg>

Click to open interactive version

</div>

</figure></div><div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-column">The study, which primarily set out to examine mass media's influence on US natural disaster response, considered over 5,000 natural disasters<sup> and 700,000 news stories from the major US national broadcast networks (ABC, CBS, NBC, and CNN) between 1968 and 2002. The findings tells us, among other important things, that networks tend to be selective in their coverage and attention is not reflecting the severity and number of people killed or affected by a natural disaster.Instead of considering the objective damage caused by natural disasters, networks tend to look for disasters that are "rife with drama", as one New York Times article put it¹²—hurricanes, tornadoes, forest fires, earthquakes all make for splashy headlines and captivating visuals. Thanks to this selectivity, less "spectacular" but often times more deadly natural disasters tend to get passed over. Food shortages, for example, result in the most casualties and affect the most people per incident¹³ but their onset is more gradual than that of a volcanic explosion or sudden

earthquake. As a result, food shortages are covered only 3% of the time while a comparatively indulgent

30% of earthquakes and volcanic events get their time in the spotlight. Additionally, when the researchers "hold all else equal" by controlling for factors such as yearly trends in news intensity and the number of people killed and affected, the difference in coverage is even more pronounced. bias for the spectacular is not only unfair and misleading, but also has the potential to misallocate attention and aid. Disasters that happen in an instant leave little time for preventative intervention. On the other hand, the gradual disasters that tend to affect more lives build up slowly, allowing more time for preventative measures to be taken. However, in a Catch-22 situation, the gradual nature of these calamities is also what prevents them from garnering the media attention they deserve.</div><div class="wp-block-column"><div class="wp-sticky-container"></div></div></div><div class="wp-block-column"> columns is-style-sticky-right"><div class="wp-block-column"><h4 id="and-the-location-of-the-disastermatters-too">And the location of the disaster matters too</hd></div><div class="wp-block-column"><div class="wp-stickycontainer"></div></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-stylecolumn">There are other biases, too. Eisensee and Strömberg found that while television networks cover more than 15% of the disasters in Europe and South Central America, they show less than 5% of the disasters in Africa and the Pacific. Disasters in Africa tend to get less coverage than ones in Asia because they are less "spectacular", with more droughts and food shortages occurring there relative to Asia. However, after controlling for disaster type, along with other factors such as the number killed and the timing of the news, there is no significant difference between coverage of African and Asian disasters. Instead, a huge difference emerges between coverage of Africa, Asia, and the Pacific on the one hand, and Europe and South and Central America, on the other. According to the researchers' estimates, 45 times as many people would have to die in an African disaster for it to garner the same media attention as a European one. The two visualizations show the extent of this bias.ABC News's slogan is "See the whole picture" and CNN's is "Go there", but good follow-up questions might be: what exactly, and where?
/p></div><div class="wp-block-column"><div class="wp-sticky-container"></div></div></div><div class="wp-block-columns is-style-side-by-side"><div class="wp-block-column"><figure data-grapher-src="https://ourworldindata.org/grapher/newscoverage-of-disasters-by-continent" class="grapherPreview">

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76,64,142.76,142.76a142.17,142.17,0,0,1-24.13,79.43A27.47,27.47,0,0,1,239.76,234.78Z"
transform="translate(0 -0.41)"></path>
</svg></span>
               <span class="label">Click to open interactive version</span>
            </div>
          </a>
        </figure></div><div class="wp-block-column"><figure data-grapher-
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</svg>

Click to open interactive version

</div>

</figure></div></div></section><div class="section-heading"><div class="wrapper"><div><h2 id="link-between-poverty-and-deaths-from-natural-disasters">Link between poverty and deaths from natural disasters</h2></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-column">One of the major successes over the past century has been the dramatic decline in global deaths from natural disasters – this is despite the fact that the human population has increased rapidly over this period.Behind this improvement has been the improvement in living standards; access to and development of resilient infrastructure; and effective response systems. These factors have been driven by an increase in incomes across the world.What remains true today is that populations in low-income countries – those where a large percentage of the population still live in extreme poverty, or score low on the Human Development Index – are more vulnerable to the effects of natural disasters. shown. This chart shows the death rates from natural disasters – the number of deaths per 100,000 population - of countries grouped by their socio-demographic-index-sdi">socio-demographic-index-sdi demographic index (SDI). SDI is a metric of development, where low-SDI denotes countries with low standards of living.What we see is that the large spikes in death rates occur almost exclusively for countries with a low or low-middle SDI. Highly developed countries are much more resilient to disaster events and therefore have a consistently low death rate from natural disasters. that this does not mean low-income countries have high death tolls from disasters year-to-year: the data here shows that in most years they also have very low death rates. But when low-frequency, highimpact events do occur they are particularly vulnerable to its effects.Overall development, poverty alleviation, and knowledge-sharing of how to increase resilience to natural disasters will therefore be key to reducing the toll of disasters in the decades to come.</div><div class="wpblock-column"><div class="wp-sticky-container"><figure data-grapher-

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</figure></div></div></section> <section> <div class="section-heading"> <div
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& amp; typhoons </h4> </div> <div
class="wp-block-column"> <div class="wp-sticky-container"> </div> </div> </div> <div class="wp-block-columns is-style-sticky-right"> <div class="wp-block-column"> There are multiple terms used to
describe extreme weather events: hurricanes, typhoons, cyclones and tornadoes. What is the difference
between these terms, and how are they defined? The
terms hurricane, cyclone
and typhoon all refer to the same thing; they can be used interchangeably.
Hurricanes and typhoons are both described as the weather phenomenon 'tropical cyclone'. A

tropical cyclone is a weather event which originates over tropical or subtropical waters and results in a rotating, organized system of clouds and thunderstorms. Its circulation patterns should be closed and low-level.
The choice of terminology is location-specific and depends on where the storm originates. The term hurricane is used to describe a tropical cyclone which originates in the North Atlantic, central North Pacific, and eastern North Pacific. When it originates in the Northwest Pacific, we call it typhoon. In the South Pacific and Indian Ocean the general term tropical cyclone is used.In other words, the only difference between a hurricane and typhoon is where it occurs.</div><div class="wp-block-column"><div class="wp-sticky-container"></div></div></div><div class="wp-block-column"></div></div></div></div></div></div> columns is-style-sticky-right"><div class="wp-block-column"><h4 id="when-does-a-storm-become-ahurricane">When does a storm become a hurricane?</h4></div><div class="wp-block-column"><div class="wp-stickycontainer"></div></div></div></div></div></div></div></div column">The characteristics of a hurricane are described in detail at the NASA website.A hurricane evolves from a tropical disturbance or storm based on a threshold of wind speed.A tropical disturbance arises over warm ocean waters. It can grow into a tropical depression which is an area of rotating thunderstorms with winds up to 62 kilometres (38 miles) per hour. From there, a depression evolves into a tropical storm if its wind speed reaches 63 km/hr (39 mph).
Finally a hurricane is formed when a tropical storm reaches a wind speed of 119 km/hr (74 mph). column"><div class="wp-sticky-container"></div></div><div class="wp-block-columns is-stylesticky-right"><div class="wp-block-column"><h4 id="difference-between-hurricanes-andtornadoes">Difference between hurricanes and tornadoes</div></div><div><div class="wp-block-columns is-style-sticky-right"><div class="wpblock-column">But, hurricanes/typhoons/cyclones are distinctly different from tornadoes.Whilst hurricanes and tornadoes have a characteristic circulatory wind patterns, they are very different weather systems. The main difference between the systems is scale (tornadoes are small-scale circulatory systems; hurricanes are largescale). These differences are highlighted in the table below:</div><div class="wp-blockcolumn"><div class="wp-sticky-container"><div class="tableContainer"><table id="tablepress-99" class="tablepress tablepress-id-99">

<thead>

Hurricanes/typhoonsTornadoes

```
</thead>
<strong>Diameter</strong>60 to 1000s
milesclass="column-3">Up to 1 - 1.5 miles (usually less)
<strong>Wind speed</strong>74 to 200
mph40 to 300 mph
<strong>Lifetime</strong>Long (usually
days)Very short (usually minutes)
<strong>Travel distance</strong>Long (100
metres to 100 miles)class="column-3">Short distances
<strong>Environmental impact</strong>Can
have impact on wider environment and atmospheric patterns.Local
(although can be very high impact). Little wider impact on atmospheric systems or environment.
</div></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-
block-column"><h4 id="volcanic-explosivity-index-vei">Volcanic Explosivity Index (VEI)<a class="deep-
link" href="#volcanic-explosivity-index-vei"></a></h4></div><div class="wp-block-column"><div
class="wp-sticky-container"></div></div></div>div>sticky-columns is-style-sticky-right"><div
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class="wp-block-column">The intensity or size of volcanic eruptions are most commonly defined by a metric termed the 'volcanic explosivity index (VEI)'. The VEI is derived based on the erupted mass or deposit of an eruption. The scale for VEI was outlined by Newhall & Def (1982), but is now commonly adopted in geophysical reporting.¹⁴<The table below provides a summary (from the NOAA's National Geophysical Data Center) of the characteristics of eruptions of different VEI values. A 'Significant Volcanic Eruption' is often defined as an eruption with a VEI value of 6 or greater. & nbsp; Historic eruptions that were definitely explosive, but carry no other descriptive information are assigned a default VEI of 2.</div><div class="wp-block-column"><div class="wp-sticky-container"><div class="tableContainer"> <thead> Volcanic Explosivity Index (VEI)General descriptionCloud Column Height (km)Volume (m³)Qualititative Description<th class="column-6">ClassificationHow frequent?Example </thead> 0Non-explosive<td class="column-3">< 0.1 km1x104Gentle<td class="column-6">HawaiiandailyKilauea 1Small0.1 - 1 km1x106Effusive 6">Haw/StromboliandailyStromboli

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2Moderate1 - 5
km1x107ExplosiveExplosiveExplosiveExplosiveExplosiveExplosiveExplosiveExplosiveExplosiveExplosiveExplosive
6">Strom/VulcanianweeklyGaleras, 1992
3Moderate-Large<td class="column-
3">3 - 15 km1x108Explosivetd
class="column-6">VulcanianannuallyRuiz,
1985
4Large10 - 25
km1x109ExplosiveExplosiveExplosiveExplosiveExplosiveExplosiveExplosiveExplosiveExplosiveExplosiveExplosive
6">Vulc/Plinian10's of yearsGalunggung,
1982
5Very Large>
25 km1x1010Cataclysmictd
class="column-6">Plinian100's of yearsSt.
Helens, 1981
6> 25
km1x1011ParoxysmalParoxysmal
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1883
7> 25
km1x1012ColossalColossal
```

6">Ultra-Plinian1000's of yearsTambora, 1815

</div></div></div></div></div></div> class="wrapper"><div><h2 id="data-quality">Data Quality</h2></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-column"><h4 id="number-of-reported-disaster-events">Number of reported disaster events</h4></div><div class="wp-block-column"></div class="wp-sticky-container"></div></div></div><div class="wp-block-column"></div></div></div></div> columns is-style-sticky-right"><div class="wp-block-column">A key issue of data quality is the consistency of even reporting over time. For long-term trends in natural disaster events we know that reporting and recording of events today is much more advanced and complete than in the past. This can lead to significant underreporting or uncertainty of events in the distant past.

-br>
-br>
-ln the chart here we show data on the number of reported natural disasters over time.

 time.

 this change over time can be influenced by a number of factors, namely the increased coverage of reporting over time. The increase over time is therefore not directly reflective of the actual trend in disaster events.</div><div class="wp-block-column"><div class="wp-sticky-container"><figure datagrapher-src="https://ourworldindata.org/grapher/number-of-natural-disaster-events" class="grapherPreview">

<div class="interactionNotice">

<svg aria-hidden="true" focusable="false" data-prefix="fas" dataicon="hand-pointer" class="svg-inline--fa fa-hand-pointer fa-w-14" role="img"
xmlns="http://www.w3.org/2000/svg" viewBox="0 0 448 617">

</figure></div></div></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-column"><h4 id="number-of-reported-disasters-by-type">Number of reported disasters by type</h4></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></di>

<div class="interactionNotice">

<svg aria-hidden="true" focusable="false" data-prefix="fas" dataicon="hand-pointer" class="svg-inline--fa fa-hand-pointer fa-w-14" role="img"
xmlns="http://www.w3.org/2000/svg" viewBox="0 0 448 617">

<path fill="currentColor" d="M448,344.59v96a40.36,40.36,0,0,1-1.06,9.16l32,136A40,40,0,0,1,376,616.59H168a40,40,0,0,1-32.35-16.47l-128-176a40,40,0,0,1,64.7-</pre>

47.06L104,420.58v-276a40,40,0,0,1,80,0v200h8v-40a40,40,0,1,1,80,0v40h8v-

</figure></div></div></div><div class="section-heading"><div class="wrapper"><div><h2 id="data-sources">Data Sources</h2></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-column">Wikipedia has several lists of disasters, and an overview of these lists can be found at List of Disasters.</div><div class="wp-block-column"><div class="wp-stickycontainer"></div></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style column"><h4 id="deaths-from-natural-disasters">Deaths from natural disasters</h4></div><div class="wp-block-column"><div class="wp-block-column"></div class="wp-block-column"></dd></dr></r></r> sticky-container"></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-styleblock-column"><h5>Institute for Health Metrics and Evaluation (IHME), Global Burden of Disease</h5>Data: IHME provides data on deaths and death rates from natural disastersGeographical coverage: Global – country and regional levelTime span: 1990 onwardsAvailable at: IHME, GBD</div><div><div class="wpblock-column"><div class="wp-sticky-container"></div></div></div><div class="wp-block-columns isstyle-sticky-right"><div class="wp-block-column"><h4 id="multiple-types-of-disasters">Multiple Types of Disasters</h4></div><div class="wpblock-column"><div class="wp-sticky-container"></div></div></div><div class="wp-block-columns isstyle-sticky-right"><div class="wp-block-column"><h5>EM-DAT – The International Disaster Database</h5>Data: EM-DAT is a catalogue of disasters listing detailed information on natural disasters: droughts (famines), earthquakes, epidemics, extreme temperatures, floods, insect infestations, mass movement (dry & wet), storms, volcanos, and wildfires. There is also a data section on technological disasters.Geographical coverage: Global – country and regional level (primarily cross-country data set, but also contains the name of the sub-national regions affected by disasters)

span: 1900 onwardsstrong>Available at: EM-DATRaw data has to be requested but the section on disaster trends encompasses a number of visualizations (time series and maps).
/li>em>EM-DAT is maintained by the Center for Research on the Epidemiology of Disasters (CRED)
EM-DAT data on the annual number of deaths and number of affected by drought, epidemics, earthquakes, extreme temperature, flood, storm, tsunami, plane crash by country is available at Gapminder. Here is the data on the number of people killed in earthquakes during a year.<ah>5>Earth Observatory by NASA – Natural Hazards</h5>Data: Up to date information and satellite images on fires, storms, floods, volcanoes, earthquakes, and droughtsGeographical coverage: GlobalTime span: Recent years – very up to dateAvailable at: earthobservatory.nasa.gov/NaturalHazards
/a>
/li>
National Geophysical Data Center (NGDC)
/h5>Data: Data and maps
on many natural hazards including cyclones, tsunamis, earthquakes, volcanoes, and wildfires. It includes
the 'Global Significant Earthquake Database, 2150 B.C. to present' (5500 events) and 'The Significant
Volcanic Eruption Database' and 'Global Historical Tsunami Events and Runups' among many other
datasets.
/li>Geographical coverage:
/strong> Global — exact
location
/li>Time span:
/strong> Millennia
/li>Available
at:
/strong> Online hereclass="no-bullet">Download maps as pdf or ArcIMS interactive maps, and data in tab-delimited
data files or html.
/em>

Platform</h5>strong>Data: Spatial data on tropical cyclones and related storm surges, drought, earthquakes, biomass fires, floods, landslides, tsunamis and volcanic eruptions.li>strong>Geographical coverage: Globalstrong>Time span: Recent paststrong>Available at: The website can be found here.class="no-bullet">Users can visualize, download or extract data on past hazardous events, human & economical hazard exposure and risk from natural hazards.li>h5>Socioeconomic Data and Applications Center (SEDAC) – by NASA</h5>strong>Data:strong>Maps of natural hazardsstrong>Geographical coverage:strong>Globalstrong>Time span:strong>Recent yearsstrong>Available at:Online http://preview.grid.unep.ch

href="http://sedac.ciesin.columbia.edu/data/sets/browse?facets=theme:hazards">here at the SEDAC

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website at Colombia University</a><strong></br></strong>
Research at Columbia University</h5><strong>Hotspots:</strong> Risk levels calculated by
combining hazard exposure with historical vulnerability for two indicators of elements at risk—gridded
population and Gross Domestic Product (GDP) per unit area—for six major natural hazards: earthquakes,
volcanoes, landslides, floods, drought, and cyclones<strong>Natural disaster profiles:</strong>
Profiles for 13 countries provide information on sub-national areas at risk from natural hazards including
cyclones, droughts, earthquakes, volcanoes, floods, and landslides.<strong>Geographical
coverage: </strong>Global for hotspots datali><strong>Time span: </strong>Recent
pastli><strong>Available at: </strong>Online <a
href="http://www.ldeo.columbia.edu/chrr/research/profiles/">here</a><strong></br>
l></div><div class="wp-block-column"><div class="wp-sticky-container"></div></div></div>
class="wp-block-columns is-style-sticky-right"><div class="wp-block-column"><h4 id="data-sources-
earthquakes"> Earthquakes<a class="deep-link" href="#data-sources-
earthquakes"></a></hd>></div><div class="wp-block-column"><div class="wp-sticky-
container"></div></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-st
column"><h5>Global Earthquake Model (GEM)</h5><strong>Data:</strong> GEM Global
Historical Earthquake Catalogue (1000-1900) and the nbsp; ISC-GEM Global Instrumental Earthquake
Catalogue (1900-2009)<strong>Geographical coverage:</strong>Global<strong>Time
span: </strong>1000 onwards<strong>Available at: </strong>Online <a
href="http://web.archive.org/web/20130106062157/http://www.globalquakemodel.org:80/risk-global-
components/exposure-database">here</a><strong></div><div><div class="wp-
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href="#fire"></a></h4></div><div class="wp-block-column"><div class="wp-sticky-
container"></div></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-
column"><h5>ATSR World Fire Atlas – by the European Space Agency
(ESA)</h5><strong>Data:&nbsp;</strong>Monthly global fire
maps<strong>Geographical coverage: </strong>Global<strong>Time
span:</strong>&nbsp;1995 onwards<strong>Available at: </strong>Online at the website of ESA
<a href="http://due.esrin.esa.int/page_wfa.php">here</a><strong></div><div
class="wp-block-column"><div class="wp-sticky-container"></div></div></div><div class="wp-block-column"></div></div></div></div></div>
columns is-style-sticky-right"><div class="wp-block-column"><h4 id="tsunami">Tsunami<a class="deep-
link" href="#tsunami"></a></h4></div><div class="wp-block-column"><div class="wp-sticky-
container"></div></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style
column">The <strong>Center for International Earth Science Information Network</strong> at the
Earth Institute at Columbia University publishes data on the <a
href="http://www.ciesin.columbia.edu/tsunami2004.html">Population Affected by the Indian Ocean
Tsunami</a> <em>(December 2004)</em>.</div>div class="wp-block-column"><div class="wp-block-column"></div class="wp-block-column"></dr>
sticky-container"></div></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-st
block-column"><h4 id="floods">Floods<a class="deep-link" href="#floods"></a></h4></div><div
class="wp-block-column"><div class="wp-sticky-container"></div></div></div><div class="wp-block-column"></div></div></div></div></div>
columns is-style-sticky-right"><div class="wp-block-column"><strong>Wikipedia</strong> has a <a
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href="http://en.wikipedia.org/wiki/List of deadliest floods">List of Deadliest Floods</a> and a <a
href="http://en.wikipedia.org/wiki/List of floods">List of Floods</a>.</div><div class="wp-block-
column"><div class="wp-sticky-container"></div></div></div><div class="wp-block-columns is-style-
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href="#hurricanes"></a></h4></div><div class="wp-block-column"><div class="wp-sticky-
container"></div></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-st
column"><h5>Unisys Data on Hurricanes</h5><strong>Data:</strong>&nbsp;Data on the track
of the storm plus a text-based table of tracking information. The table includes position in latitude and
longitude, maximum sustained winds in knots, and central pressure in
millibars.<strong>Geographical coverage:</strong>&nbsp;Atlantic, East Pacific, West Pacific,
South Pacific, South Indian, and North Indianli><strong>Time span:</strong>&nbsp;1851 until
nowstrong>Available at:</strong>&nbsp;Online <a
href="http://weather.unisys.com/hurricanes">here</a>class="no-bullet"><em><em>&nbsp;This
data set was used by Dean Yang (2008) - Coping with Disaster: The Impact of Hurricanes on
International Financial Flows, 1970-2002. The B.E. Journal of Economic Analysis & Eamp; Policy. Volume 8,
Issue 1, ISSN (Online) 1935-1682, DOI: 10.2202/1935-1682.1903, June 2008. Online <a
href="http://www.degruyter.com/view/j/bejeap.2008.8.1/bejeap.2008.8.1.1903/bejeap.2008.8.1.1903.
xml?format=INT">here</a>.</em></sl>
(NOAA)</h5><strong>Data:</strong>&nbsp;Data on the track of
storms<strong>Geographical coverage:</strong> Global<strong>Time
span:</strong>&nbsp;1848 until now<strong>Available at:</strong>&nbsp;Online at <a
href="http://www.ncdc.noaa.gov/ibtracs/index.php?name=wmo-data">NOAA
here</a></div><div class="wp-block-column"><div class="wp-sticky-
container"></div></div></div></div></div></div></div></div
column"><h4 id="data-sources-volcanoes">Volcanoes<a class="deep-link" href="#data-sources-
volcanoes"></a></h4></div><div class="wp-block-column"><div class="wp-sticky-
container"></div></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-
column"><h5>National Geophysical Data Center (NGDC)</h5><strong>Data:</strong>&nbsp;
Global listing of over 500 significant eruptions which includes information on the latitude, longitude,
elevation, type of volcano, and last known eruption.
coverage:</strong>&nbsp;Global<strong>Time span:</strong>&nbsp;1750BC
onwards<strong>Available at:</strong>&nbsp;Online at the <a
href="https://www.ngdc.noaa.gov/nndc/servlet/ShowDatasets?dataset=102557&search_look=50
&display_look=50">Significant Volcanic Eruption Database.</a><h5>Smithsonian
Institution's Global Volcanism Program (GVP)</h5><strong>Data:</strong>&nbsp;Complete list
of current and past activity for all volcanoes on the planet active during the last 10,000 years. Data
includes eruption type, maximum Volcanic Explosivity Index, start and end dates (when known), and the
type of evidence for the eruption.<strong>Geographical coverage:</strong>
GlobalStrong>Time span:strong> Past 10,000 years to present
daydaystrong>Available at:</strong>&nbsp;Online at <a
href="http://volcano.si.edu/search eruption.cfm##">the Volcanoes of the World
Database</a>strong>Full reference:</strong>&nbsp;Global Volcanism Program, 2013.
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Volcanoes of the World, v. 4.7.3. Venzke, E (ed.). Smithsonian Institution.
https://doi.org/10.5479/si.GVP.VOTW4-2013
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sources-lightning"></a></h4></div><div class="wp-block-column"><div class="wp-sticky-
container"></div></div></div></div><div class="wp-block-columns is-style-sticky-right"><div class="wp-block-columns is-style-sticky-right"></div class="wp-block-columns is-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-style-
column"><h5>Lightning Maps</h5><strong>Data:</strong>&nbsp;Real-time tracking of
lightning strikes<strong>Geographical coverage:</strong>&nbsp;Global<strong>Time
span:</strong>&nbsp;Real-timeli><strong>Available at:</strong>&nbsp;Online <a
href="http://www.lightningmaps.org/#m=oss;t=3;s=0;o=0;b=;ts=0;">here</a></div><div
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class="article-footer"><div class="wp-block-column"><h3 id="endnotes"
class="h3-bold">Endnotes</h3>EMDAT (2019): OFDA/CRED
International Disaster Database, Université catholique de Louvain – Brussels – Belgium
id="note-2">EM-DAT, CRED / UCLouvain, Brussels, Belgium – <a
href="http://www.emdat.be">www.emdat.be</a> (D. Guha-Sapir)id="note-3">Since
two events are ranked equally in 8th place, a total of 11 are included.id="note-
4">National Geophysical Data Center / World Data Service (NGDC/WDS): Significant Earthquake
Database. National Geophysical Data Center, NOAA. Available at: <a rel="noreferrer noopener"
href="https://www.ngdc.noaa.gov/nndc/struts/form?t=101650&s=1&d=1"
target="_blank">https://www.ngdc.noaa.gov/nndc/struts/form?t=101650&s=1&d=1</a>.</p
>id="note-5">The death toll of the Haitian earthquake is still disputed. Here we present the
adopted figure by the NGDC of the NOAA (for consistency with other earthquakes); this is the figure——
reported by the Haitian government. Some sources suggest a lower figure of 220,000. In the latter case,
this event would fall to 7th place in the above rankings.id="note-6">This data is sourced
from the The <a
href="https://www.ngdc.noaa.gov/nndc/servlet/ShowDatasets?dataset=102557&search_look=50
&display look=50">Significant Volcanic Eruption Database</a> is a global listing of over 500
significant eruptions.id="note-7"><br> This is from the NASA Socioeconomic Data And
Applications Center (SEDAC) hosted by the Center for International Earth Science Information Network
(CIESIN) at Columbia University. This map is online at their website <a
href="http://sedac.ciesin.columbia.edu/data/set/ndh-landslide-mortality-risks-
distribution/maps">here</a>.<br> This document is licensed under a <a
href="http://creativecommons.org/licenses/by/3.0/">Creative Commons 3.0 Attribution
License</a>.id="note-8"><br> This map is taken from <a
href="http://en.wikipedia.org/wiki/File:Global lightning strikes.png">Wikipedia here</a>.<br/>br> This file
is licensed under the Creative Commons Attribution-Share Alike 3.0 Unreported license.
id="note-9">Eisensee, T., & Drömberg, D. (2007). News droughts, news floods, and US disaster
relief. The Quarterly Journal of Economics, 122(2), 693-728. Online here: <a rel="noreferrer noopener"
href="http://perseus.iies.su.se/~dstro/wpdisasters.pdf"
target=" blank">http://perseus.iies.su.se/~dstro/wpdisasters.pdf</a>id="note-10">As
is mentioned below in more detail, this figure is controlled for other factors (i.e. country, year, month,
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and number of people affected).
the Centre for Research on the Epidemiology of Disasters, where an event qualifies as a disaster if at
least one of the following criteria are fulfilled: ten or more people are reported, killed; 100 or more
people are reported affected, injured, and/or homeless; there has been a declaration of a state of
emergency; or there has been a call for international assistance.id="note-12">Eisensee,
T., & Don't Strömberg, D. (2007). News droughts, news floods, and US disaster relief. The Quarterly
Journal of Economics, 122(2), 693-728. Online here: <a rel="noreferrer noopener"
href="http://perseus.iies.su.se/~dstro/wpdisasters.pdf"
target=" blank">http://perseus.iies.su.se/~dstro/wpdisasters.pdf</a>id="note-
13">Based on the study's analysis of data compiled by the Centre for Research on the Epidemiology
of Disasters.id="note-14">Newhall, C.G. and Self, S (1982). The volcanic explosivity index
(VEI): an estimate of explosive magnitude for historical volcanism.<em>Jour Geophys Res (Oceans
& Atmospheres)</em>, 87:1231-1238. Available at:&nbsp;<a
href="https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/JC087iC02p01231">https://agupubs.on
linelibrary.wiley.com/doi/abs/10.1029/JC087iC02p01231</a>.<h3 id="citation" class="h3-
bold">Cite this work</h3>Our articles and data visualizations rely on work from many different
people and organizations. When citing this entry, please also cite the underlying data sources. This entry
can be cited as:<div><div>can be cited as:<div>code>Hannah
Ritchie and Max Roser (2014) - " Natural Disasters ". Published online at Our World In Data.org.
Retrieved from: 'https://ourworldindata.org/natural-disasters' [Online
Resource]</code><button class="code-copy-button" aria-label="Copy to clipboard"><svg aria-
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d="M224 0c-35.3 0-64 28.7-64 64V288c0 35.3 28.7 64 64 64H448c35.3 0 64-28.7 64-64V64c0-35.3-28.7-
64-64-64H224zM64 160c-35.3 0-64 28.7-64 64V448c0 35.3 28.7 64 64 64H288c35.3 0 64-28.7 64-
64V384H288v64H64V224h64V160H64z"></path></svg></button></div>BibTeX
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 title = {Natural Disasters},
 journal = {Our World in Data},
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Help us do this work by making a donation.</div><div class="owid-col owid-col--lg-1">Donate now<svg aria-hidden="true" focusable="false" data-prefix="fas" data-icon="angle-right" class="svg-inline--fa fa-angle-right" role="img" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 320 512"><path fill="currentColor" d="M278.6 233.4c12.5 12.5 12.5 32.8 0 45.3l-160 160c-12.5 12.5-32.8 12.5-45.3 0s-12.5-32.8 0-45.3L210.7 256 73.4 118.6c-12.5-12.5-12.5-32.8 0-45.3s32.8-12.5 45.3 0l160 160z"></path></svg></div></div></div></footer class="site-footer"><div class="wrapper"><div class="owid-row"><div class="owid-col owid-col--lg-1">Aboutli>ContactFeedbackli>Jobsli>FundingHow to useli>DonatePrivacy policy</div><div class="owid-col owid-col--lg-1">Latest workli>All chartsTwitter<la href="https://www.facebook.com/OurWorldinData" data-track-note="footer-navigation">FacebookInstagrama href="https://github.com/owid" data-track-note="footernavigation">GitHubli>RSS Feed</div><div class="owid-col owid-col--lg-1"><div class="logos"></div></div><div class="owid-col flex-2"><div class="legal">Licenses: All visualizations, data, and articles produced by Our World in Data are open access under the Creative Commons BY license. You have permission to use, distribute, and reproduce these in any medium, provided the source and authors are credited. All the software and code that we write is open source and made available via GitHub under the permissive MIT license. All other material, including data produced by third parties and made available by Our World in Data, is subject to the license terms from the original third-party authors.Please consult our full legal disclaimer.Our World In Data is a project of the Global Change Data Lab, a registered charity in England and Wales (Charity Number 1186433).</div></div></div></div><script src="https://polyfill.io/v3/polyfill.min.js?features=es6,fetch,URL,IntersectionObserver,IntersectionObser verEntry,ResizeObserver"></script><script src="https://ourworldindata.org/assets/commons.js"></script><script</pre> src="https://ourworldindata.org/assets/vendors.js"></script><script</pre> src="https://ourworldindata.org/assets/owid.js"></script><script>window.runSiteFooterScripts(undefin ed)</script></footer><script>

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