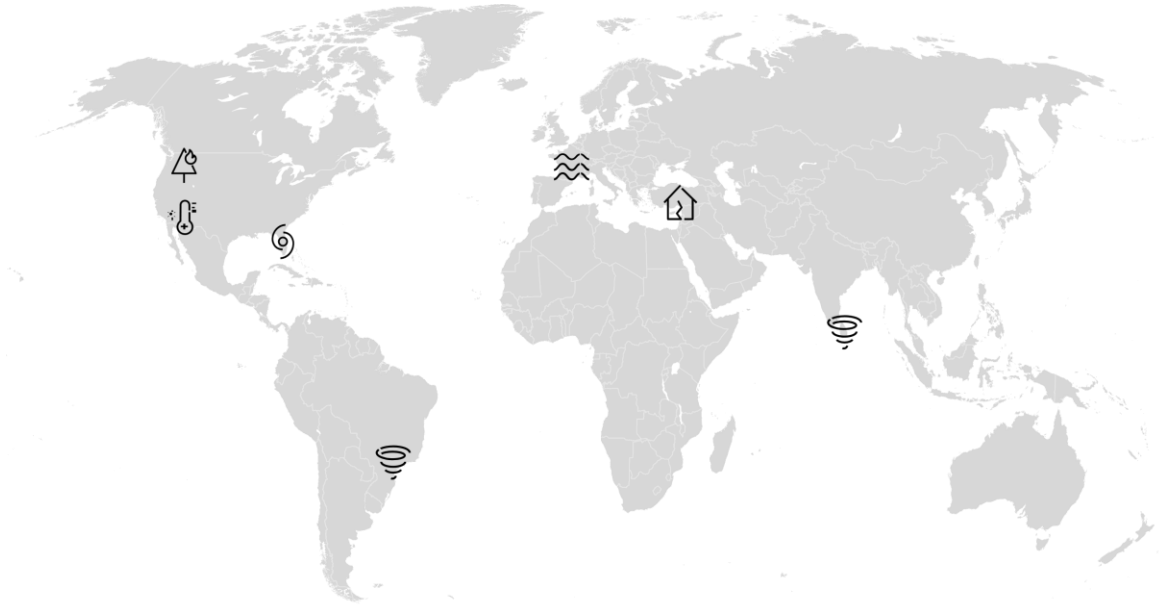


Weekly Cat Report

October 18, 2024



Executive Summary



Event	Affected Region(s)	Fatalities	Economic Loss (\$)	Page
Hurricane Milton (Update)	United States, Mexico	27	10s of billions	3
Flooding	France	0	Unknown	5
Wildfires	United States	0	10s of millions	6
Earthquake	Turkey	0	Millions	7
Severe Convective Storm	Brazil	8	Unknown	7
SCS & Flooding	Sri Lanka	3	Millions	7
Heatwave	United States	10s	N/A	7

Please note that any financial loss estimate is preliminary and subject to change. These estimates are provided as an initial view of the potential financial impact from a recently completed or ongoing event based on early available assessments. Significant adjustments may inevitably occur. All losses in US dollars (\$) unless noted otherwise.

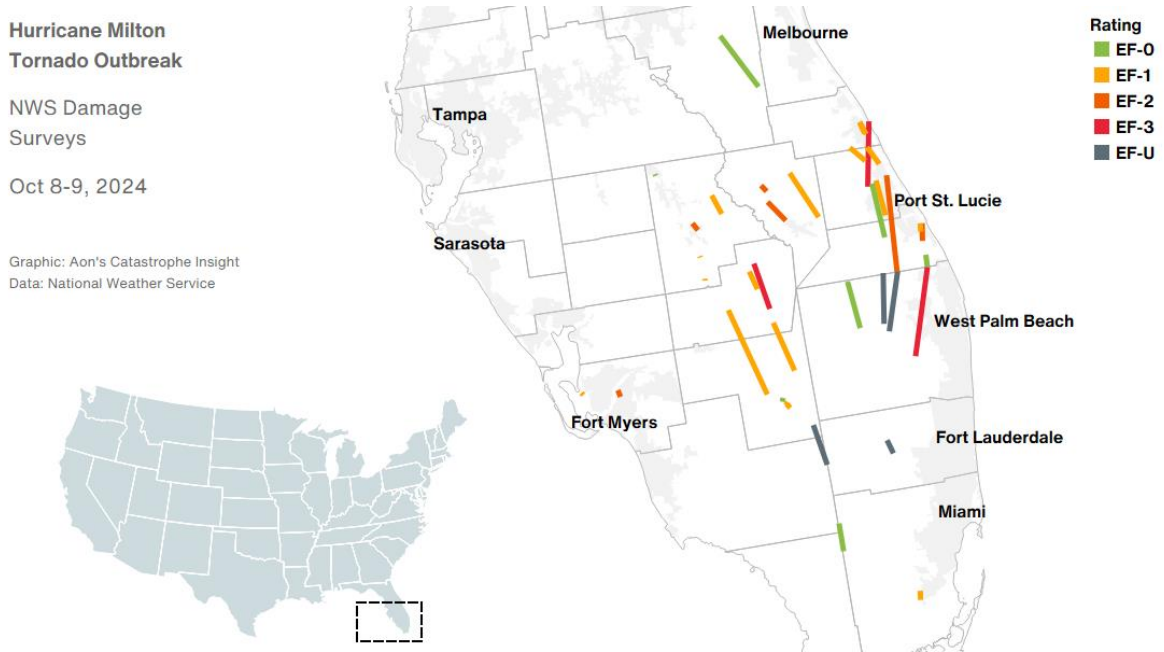
Along with this report, we continue to welcome users to access current and historical natural catastrophe data and event analysis on Impact Forecasting's Catastrophe Insight website: <http://catastropheinsight.aon.com>

United States, Mexico: Hurricane Milton (Update)

Overview

More than a week after landfall, impacts and material losses from Hurricane Milton have continued to increase. Recent preliminary damage surveys from the National Weather Service have identified at least 42 tornadoes produced by Milton, while the death toll across Florida and Mexico has increased to 27. As insurance claims and issued emergency funds continue to rise, total economic and insured losses will likely reach into the tens of billions USD.

Meteorological Recap & Event Details



Recent post-event analyses in the wake of Hurricane Milton have revealed more significant impacts across the state of Florida, with dozens of communities likely facing years of recovery. Aside from severe winds, heavy rainfall, and storm surge, much of southern Florida experienced an unprecedented tornado outbreak produced by Milton’s outer rainbands, particularly on October 8-9. As of October 17, at least 42 tornadoes have been identified in post-event damage surveys conducted by multiple, local National Weather Service (NWS) offices. Remarkably, this included at least three EF-3 tornadoes, one of which caused 6 fatalities and extensive damage across St. Lucie and Indian River counties. An additional 6 twisters were rated EF-2, including one that tore through parts of Fort Myers with peak winds of 116 mph (187 kph). More NWS damage survey updates are possible in the next few weeks.

As of October 16, the death toll attributed to Hurricane Milton has increased to 27. At least 24 people were killed across southern Florida while another 3 fatalities were confirmed in Mexico.

Financial Loss

According to a report from the Florida Office of Insurance Regulation (OIR), the number of property claims related to impacts from Hurricane Milton has exceeded 152,000 as of October 15. These figures also include more than 100,000 homeowners claims and \$1.9 billion in total insured losses estimated by OIR, exceeding figures reported across Florida from Helene. Additionally, the Federal Emergency Management Agency (FEMA) has approved over \$620 million in emergency funds for individuals and communities impacted by Hurricane Milton as of October 16.

It should be noted that damages from Milton in western Florida were likely exacerbated due to impacts from Hurricane Helene, which produced significant storm surge, strong winds, and heavy rain across many coastal communities two weeks prior to Milton's landfall. Overall, total economic and insured losses due to winds, rainfall, and storm surge from Hurricane Milton will likely reach into the tens of billions USD.

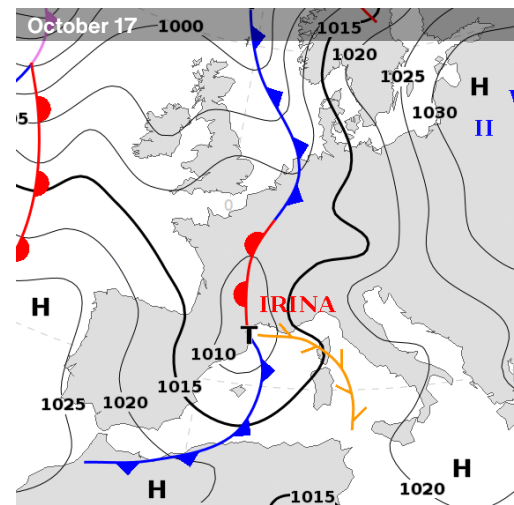
France: Flooding

Overview

A major flooding event is ongoing in parts of Southern France as a result of exceptional rainfall, locally peaking at 700 mm (27.6 in). Departments of Rhône, Loire, Haute-Loire, Lozère, Ardèche, and Alpes-Maritimes were placed under the highest alert. Economic and insured losses are yet to be determined.

Meteorological & Hydrological Recap

Torrential rain in south-central France on October 17 resulted in a significant hydrological response. The episode occurred as the remnants of Hurricane Leslie reached the European continent on the previous day and later transformed into a low named Irina. The interplay with local orography, previous saturation of soils, and other factors contributed to the event's severity. The most affected region thus saw 48-hour accumulations of 400-500 mm, with exposed locations even seeing over 700 mm (27.6 in) of rain.

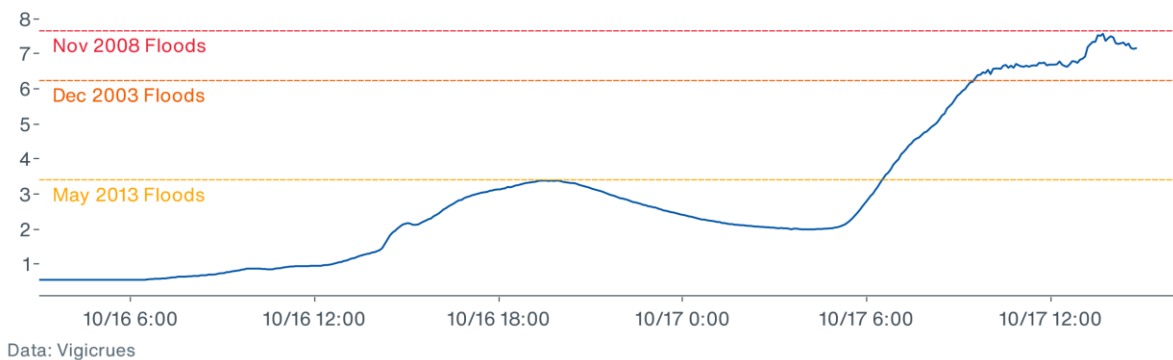


Event Details

Major flooding ensued in the affected region; six departments are under the highest, red alert: Rhône, Loire, Haute-Loire, Lozère, Ardèche, and Alpes-Maritimes.

Another 19 departments across France are under an orange alert due to heavy rainfall and flooding. With more rain forecast, the full extent of damage will be known in the coming days and weeks.

Water Level at Chadrac, Loire River (meters)



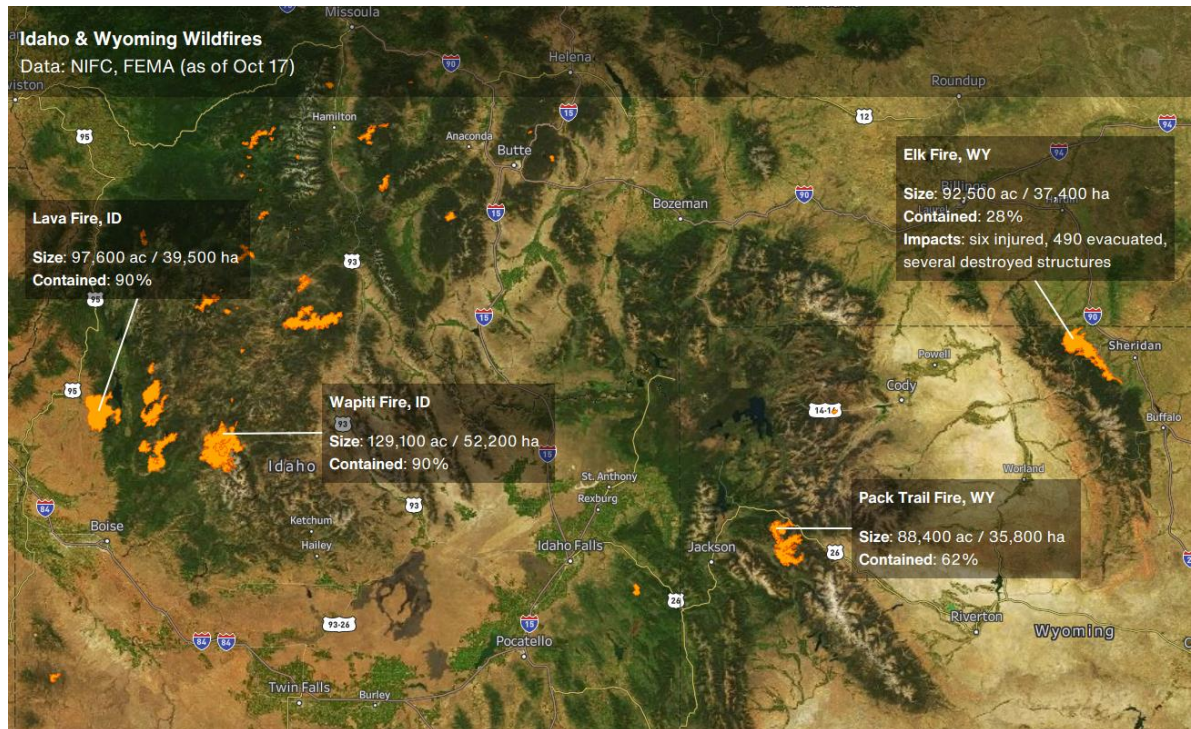
United States: Wildfires

Overview

Multiple widespread wildfires have been burning across the U.S. states of Idaho, Wyoming, Oregon, and elsewhere, prompting evacuations and causing notable damage to forestry and agriculture. Total economic losses may reach tens of millions USD.

Meteorological Recap & Event Details

Warm, dry, and windy weather have enhanced the conditions for wildfire development across the Western U.S. The largest fires are currently burning in Idaho, Wyoming, and Oregon, affecting hundreds of thousands of acres of land. Notable impacts of the **Elk Fire** have been reported in Sheridan County (WY), where several houses have been already destroyed and more than 2,700 others remain threatened. Fire has prompted evacuations of almost 500 people and injured at least six since September 28, according to FEMA.



Financial Loss

Regarding the extent of ongoing wildfires, aggregated economic losses have the potential to reach at least tens of millions USD. Total losses may further increase since many fires are not fully contained.

Natural Catastrophes: In Brief

Earthquake (Turkey)

A 6.0-magnitude earthquake (as registered by USGS) occurred on October 16 in Malatya province, eastern Turkey, with an epicenter located approximately 42 km (26 mi) east of Malatya city. The media reported almost 200 injured people due to the earthquake. There were no reports of fatalities or major material damage, however, USGS PAGER estimated a high probability of economic losses in the millions USD or even higher. According to preliminary damage assessments, 20 buildings were severely damaged, while more than 500 sustained minor damages.

Severe Convective Storm (Brazil)

Severe storms generated damaging winds and heavy rainfall across south-eastern and central Brazil on October 11-12, particularly in the Sao Paulo state and the capital city of Brasilia. At least eight people were killed, while several others were injured. Fallen trees caused damage to several houses and disrupted powerlines to more than 1.4 million people.

Severe Convective Storm & Flooding (Sri Lanka)

Most provinces of Sri Lanka have been affected by heavy rainfall and strong winds in recent days. Three people have died and several others have been injured due to floods and severe weather-related incidents, according to the Disaster Management Centre of Sri Lanka. Over 155,000 individuals have been affected and almost 500 houses have been damaged, particularly in the districts of Colombo and Gampaha.

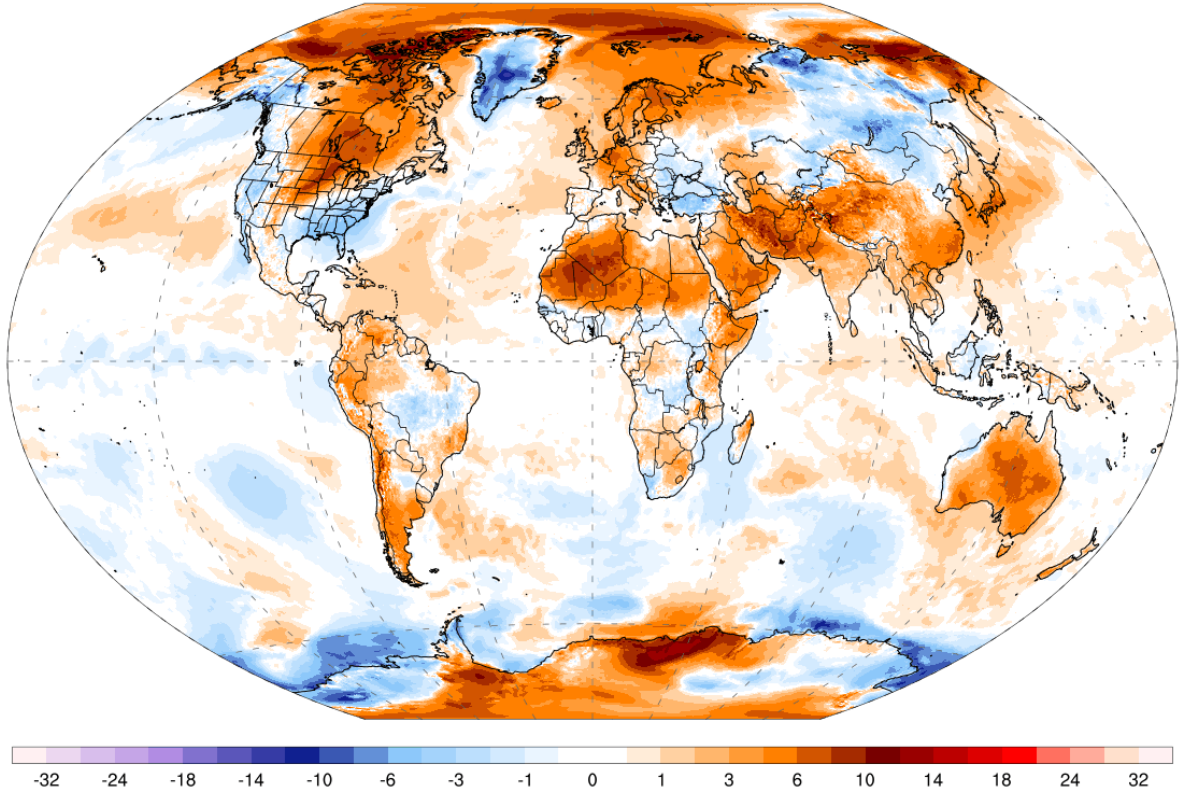
Heatwave (United States)

From September 24 to October 14, the city of Phoenix, Arizona endured a brutal, early-autumn heatwave. During this entire 3-week period, Phoenix experienced daytime temperatures near or exceeding 104 °F (40 °C), with several days reaching up to 113 °F (45 °C). As a result of this intense heat, the city saw a remarkable 21 consecutive days of new daily high-temperature records, according to the National Weather Service. The Maricopa County Department of Public Health, which collects detailed mortality data, has been investigating dozens of deaths possibly related to the recent severe heatwave. Their data shows that 389 people have already died in 2024 due to heat.

Global Temperature Anomaly Forecast

GFS 2m T Anomaly (°C) [CFSR 1979-2000 baseline]
Days 1-3 Avg | Thu, Oct 17, 2024

ClimateReanalyzer.org
Climate Change Institute | University of Maine

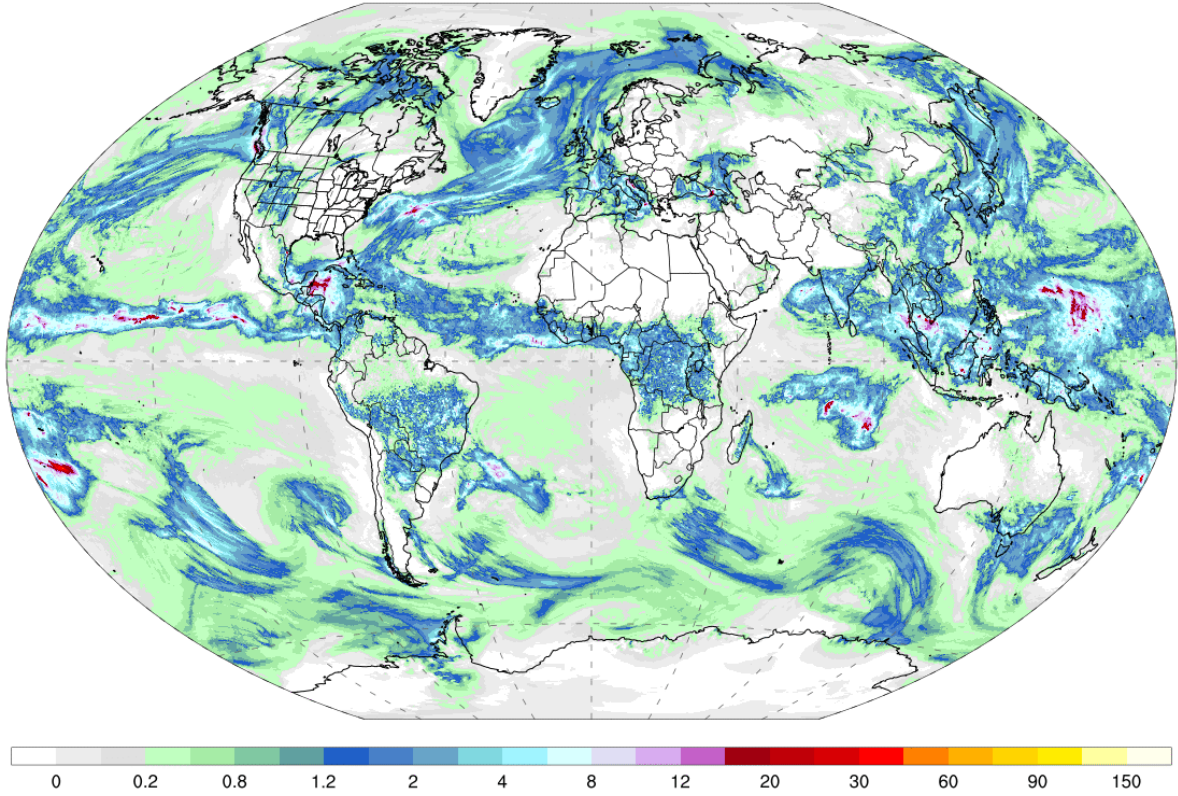


Source: Climate Reanalyzer, Climate Change Institute, University of Maine, USA

Global Precipitation Forecast

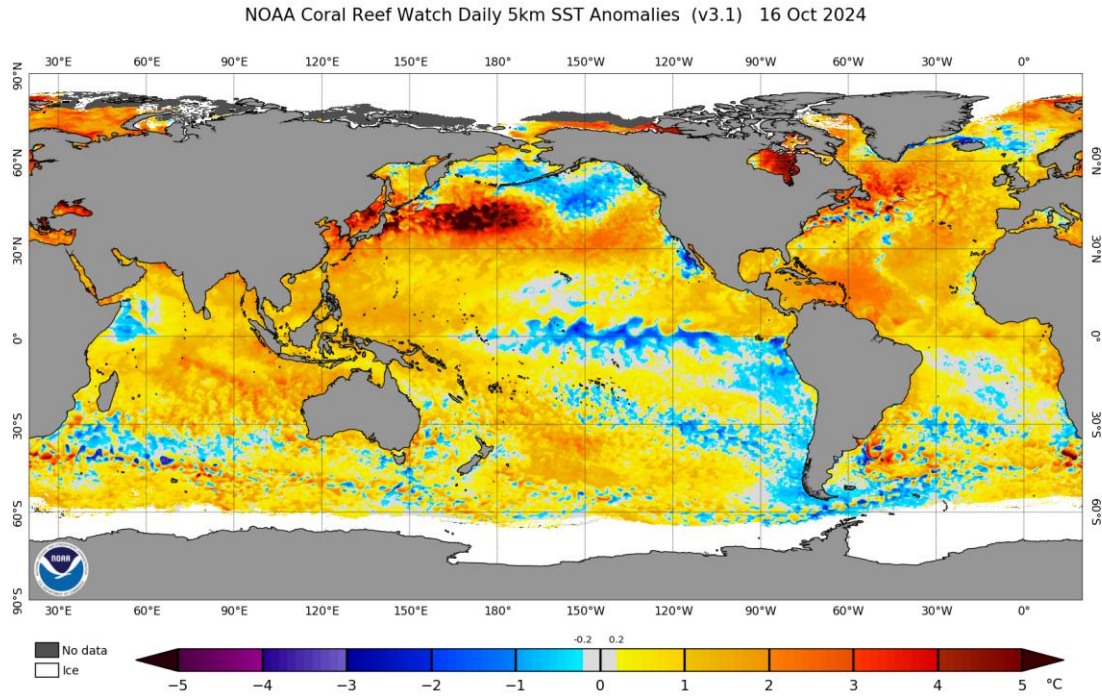
GFS Accumulated Precipitation (cm)
Days 1-3 Total | Thu, Oct 17, 2024

ClimateReanalyzer.org
Climate Change Institute | University of Maine



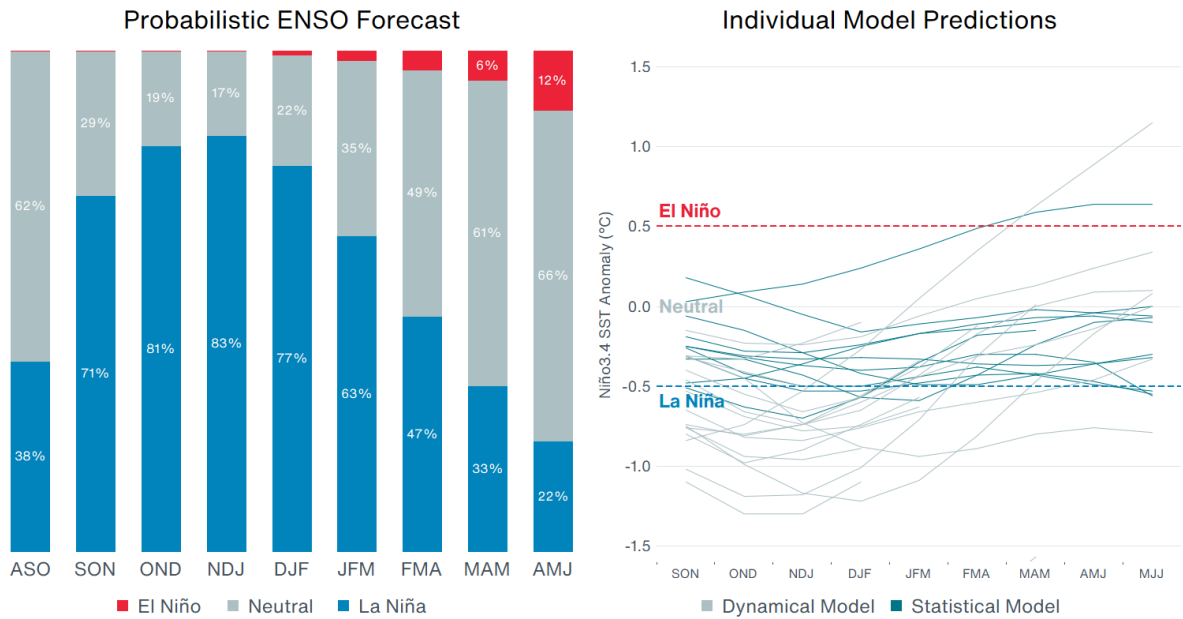
Source: Climate Reanalyzer, Climate Change Institute, University of Maine, USA

Weekly Sea Surface Temperature (SST) Maps (°C)



El Niño-Southern Oscillation (ENSO)

Probabilistic ENSO Model Projections: September 2024



El Niño: Warm phase of an ENSO cycle. Sea surface temperatures of +0.5°C occur across the east-central equatorial Pacific.

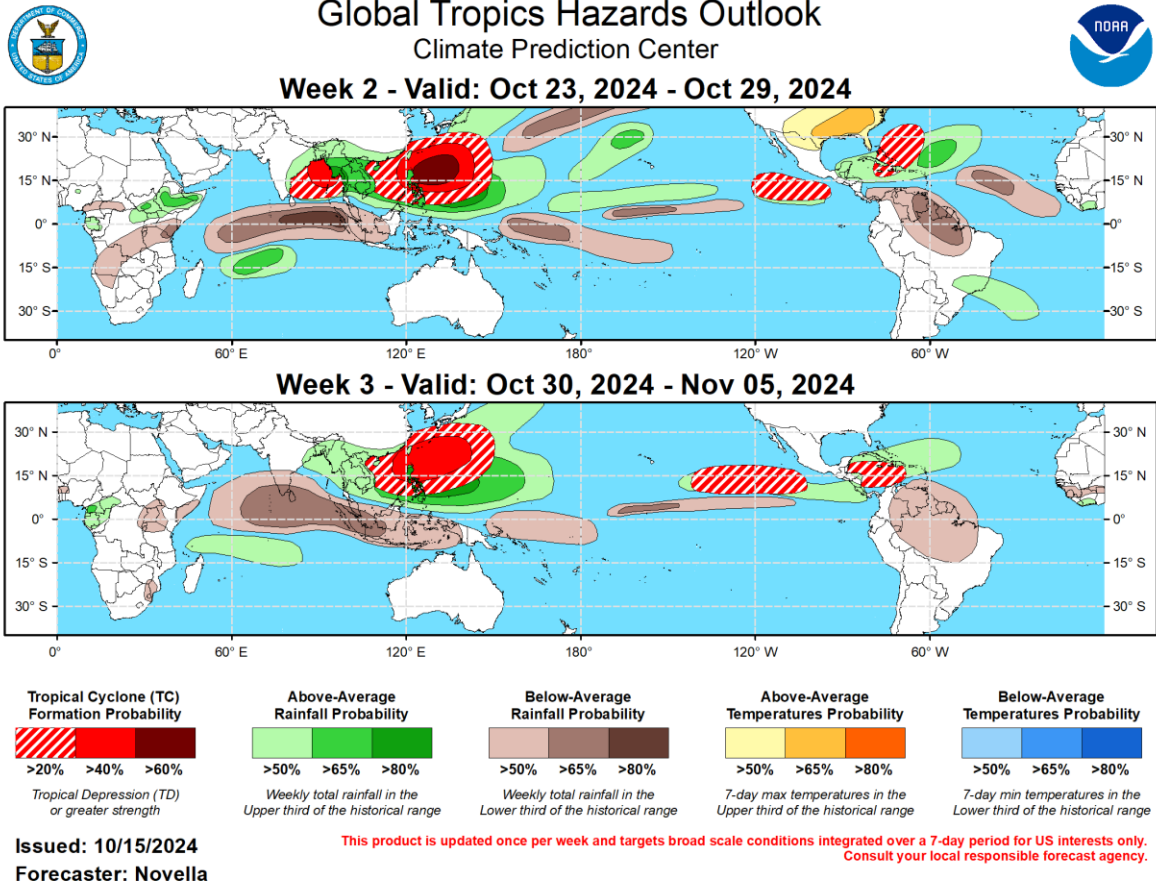
La Niña: Cool phase of an ENSO cycle. Sea surface temperatures of -0.5°C occur across the east-central equatorial Pacific.

Neutral: A period when neither El Niño nor La Niña conditions are present.

El Niño (La Niña) is a phenomenon in the equatorial Pacific Ocean characterized by a five consecutive 3-month running mean of sea surface temperature (SST) anomalies in the Niño 3.4 region that is above the threshold of +0.5°C (-0.5°C). This is known as the Oceanic Niño Index (ONI).

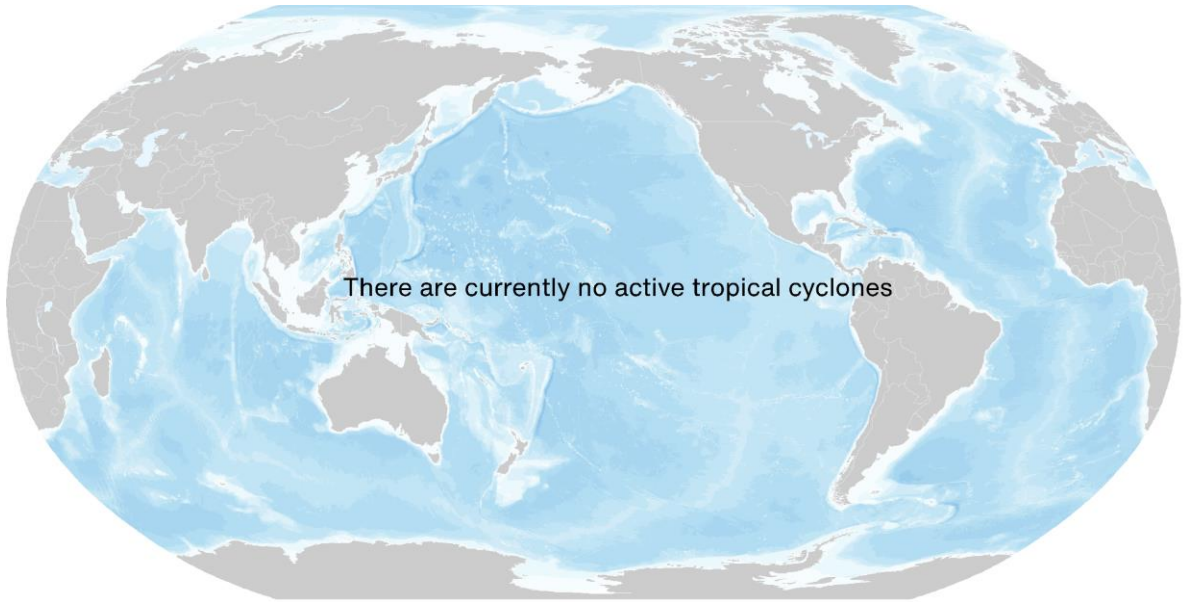
Source: NOAA, Columbia University | Graphic: Aon Catastrophe Insight

Global Tropics Outlook



Source: Climate Prediction Center (NOAA)

Current Tropical Cyclone Activity



🌀 Tropical Depression
 🌀 Tropical Storm
 🌀 Category 1
 🌀 Category 2
 🌀 Category 3
 🌀 Category 4
 🌀 Category 5

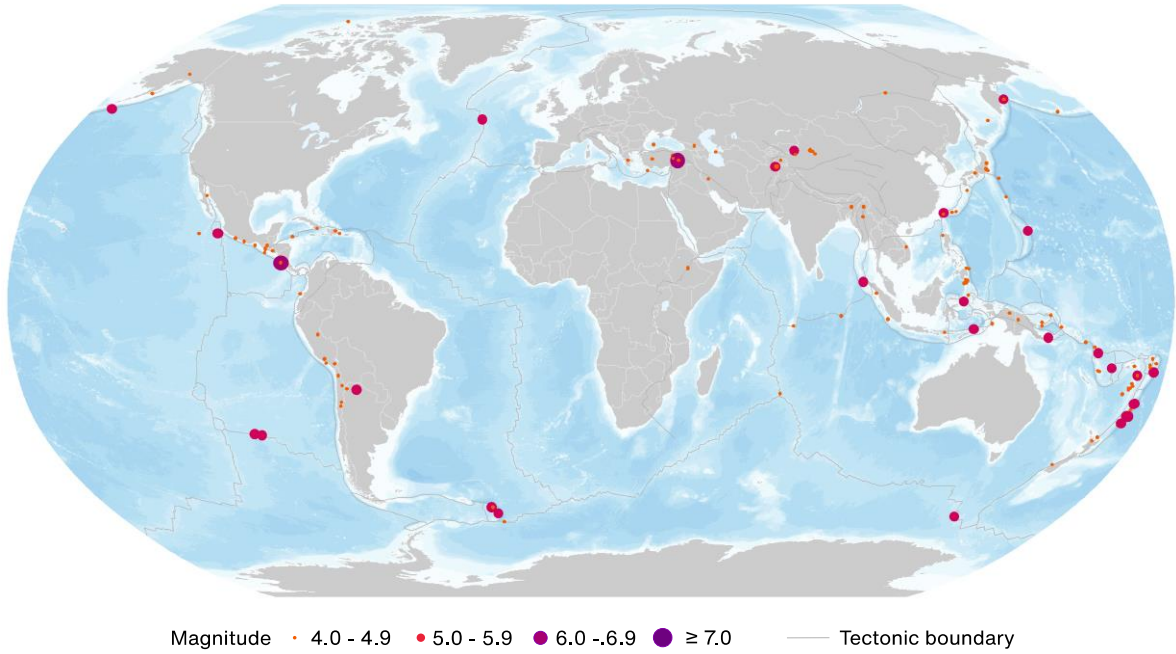
Name	Location	Winds	Center

* TD: Tropical Depression, TS: Tropical Storm, HU: Hurricane, TY: Typhoon, CY: Cyclone

** N: North, S: South, E: East, W: West, NW: Northwest, NE: Northeast, SE: Southeast, SW: Southwest

Source: National Hurricane Center, Joint Typhoon Warning Center, Central Pacific Hurricane Center (NOAA)

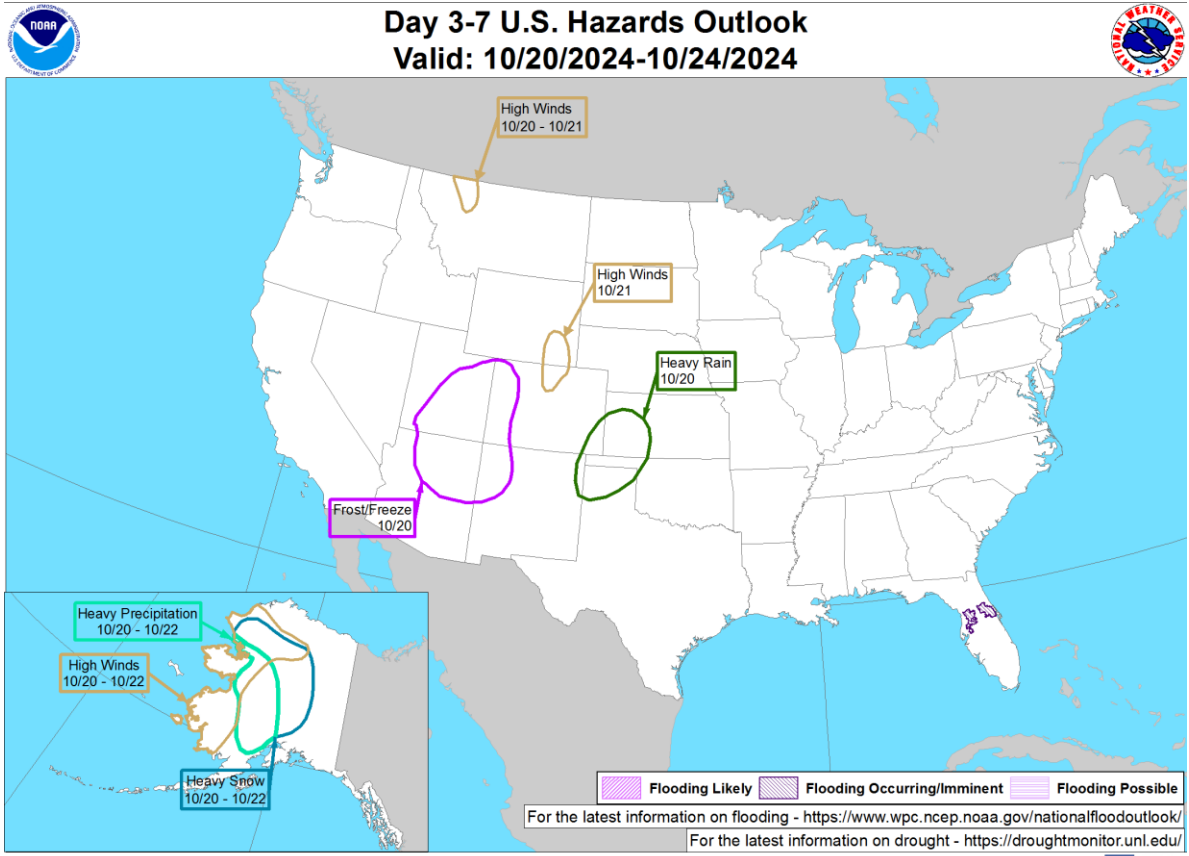
Global Earthquake Activity ($\geq M4.0$): October 11-17



Date (UTC)	Location	Magnitude	Epicenter
10/12/2024	10.49N, 86.17W	6.2	41 km (25 mi) WNW of Tamarindo, Costa Rica
10/16/2024	38.31N, 38.83E	6	18 km (11 mi) W of Dörtyol, Turkey

Source: United States Geological Survey

U.S. Hazard Outlook

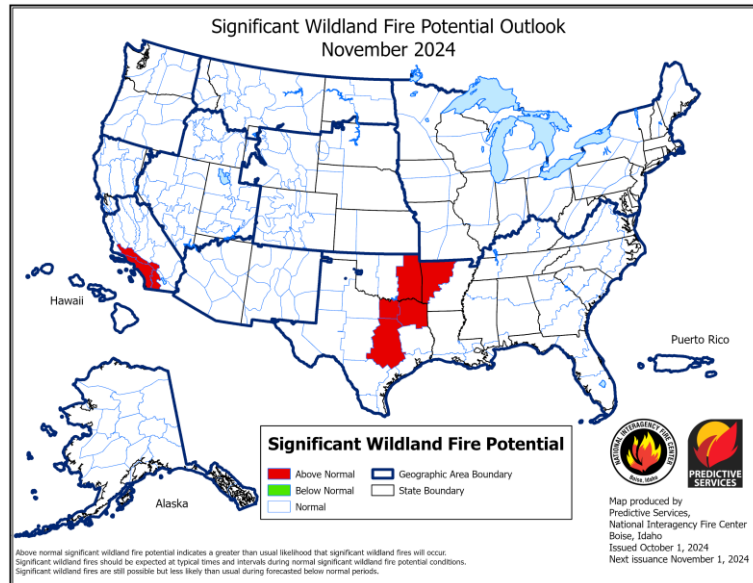
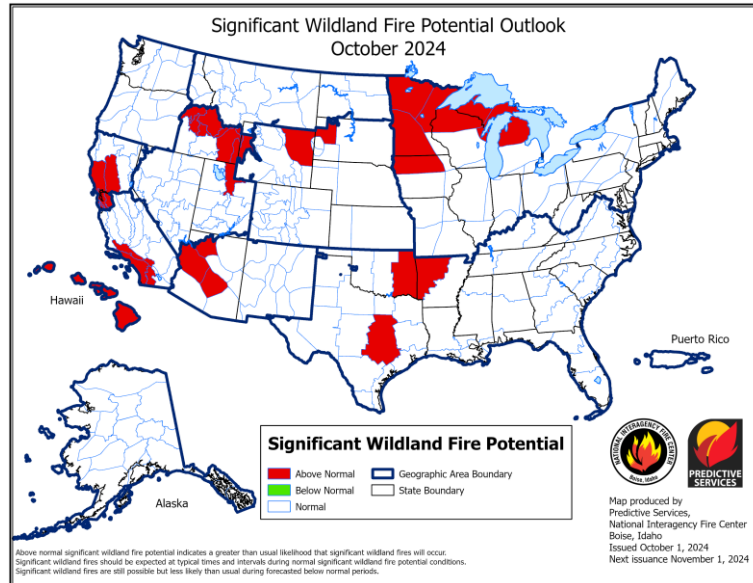


Weather Prediction Center
Made: 10/17/2024 03:32 PM EDT

Follow us:  
www.wpc.ncep.noaa.gov

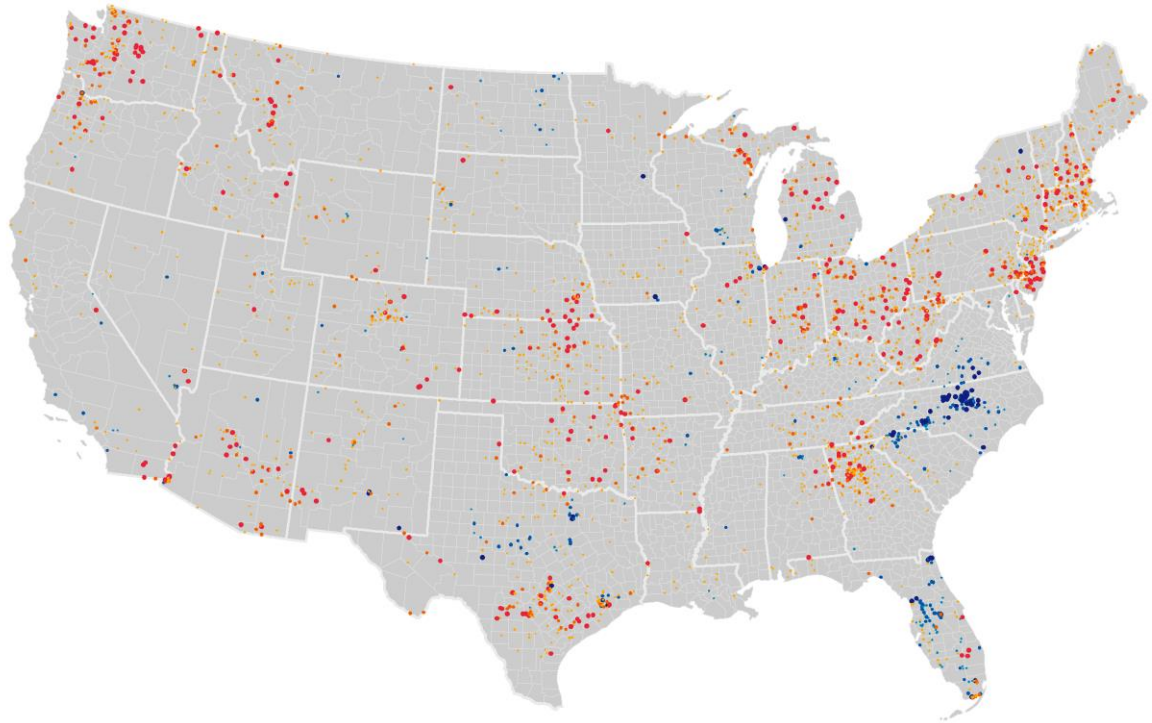
Source: Climate Prediction Center (NOAA)

U.S. Wildfire: Significant Fire Risk Outlook & Activity



Source: NIFC

U.S. Current Riverine Flood Risk



- | | | | |
|----------------------------|---------------------------|-------------------------|--------------------|
| High Flows
(Percentile) | • ≥ 99 / Above floodstage | Hydrological
Drought | • Severe Drought |
| | • 95 - 99 | | • Moderate Drought |
| | • 90 - 95 | | • Below Normal |

A ≥99th percentile indicates that estimated streamflow is greater than the 99th percentile for all days of the year. This methodology also applies for the other two categories. A stream in a state of severe drought has 7-day average streamflow of less than or equal to the 5th percentile for this day of the year. Moderate drought indicates that estimated 7-day streamflow is between the 6th and 9th percentile for this day of the year and 'below normal' state is between 10th and 24th percentile.

Source: United States Geological Survey

Source Information

United States, Mexico: Hurricane Milton (Update)

Storm Prediction Center (SPC)

Florida's Manasota Key utterly devastated after Hurricane Milton made landfall nearby, *NBC News*
Update: Milton's 152,000 Claims So Far Mean New Pressure on Reinsurance, Rate Hikes, *Insurance Journal*

Biden-Harris Administration Approves More Than \$1.8 Billion for Hurricane Response and Recovery Efforts, *Federal Emergency Management Agency*

France: Flooding

European Severe Weather Database (ESWD)

Météo-France

United States: Wildfires

National Interagency Fire Center (NIFC)

Federal Emergency Management Agency (FEMA)

Natural Catastrophes: In Brief

U.S. Geological Survey (USGS)

National Weather Service

Disaster Management Centre of Sri Lanka

The Maricopa County Department of Public Health

Powerful storm knocks out power to 1.4 million homes in Brazil's largest city, *AP News*

An earthquake measuring 5.9 hits eastern Turkey, causing panic but no major damage, *AP News*

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