

Welcome to AMS News You Can Use. Each week, we send out a sampling of recent news and items of interest in meteorology and related fields, as covered by various media outlets.

[New data-driven global climate model provides projections for urban environments](#)

EurekAlert! - January 3, 2021

In a new study, researchers take a closer look at how climate change affects cities by using data-driven statistical models combined with traditional process-driven physical climate models.

[2020 Was a Year of Climate Extremes. What Can We Expect in 2021?](#)

TIME - December 31, 2020

Though it's historically been difficult to say if single weather events were directly caused by climate change, scientists have proven that many of the events that took place in 2020 would have been far less likely, or even impossible, without changes to the climate that are being driven by the warming of the Earth.

[Floods, storms and searing heat: 2020 in extreme weather](#)

The Guardian - December 30, 2020

While Covid has dominated the news, the world has also felt the effects of human-driven global heating.

[Amazing Earth: Satellite Images from 2020](#)

NASA - December 31, 2020

NASA's fleet of Earth-observing satellites and instruments on the International Space Station unravel the complexities of the blue marble from a cosmic vantage point. These robotic scientists orbit our globe constantly, monitoring and notating changes, providing crucial information to researchers here on the ground.

[Shrinking Margins of Greenland: At Least 200 Coastal Glaciers Have Retreated Over the Past 20 Years](#)

SciTechDaily - January 2, 2021

A recent study of Greenland's ice sheet found that glaciers are retreating in nearly every sector of the island, while also undergoing other physical changes. Some of those changes are causing the rerouting of freshwater rivers beneath the ice.

[Two Upcoming NASA Missions Will Study Earth-Threatening Space Weather](#)

Gizmodo - January 4, 2021

Two new missions to explore the Sun and Earth's auroras could vastly improve our understanding of the complex interactions responsible for potentially dangerous space weather.

New tool for reconstructing ancient sea ice to study climate change

ScienceDaily - January 4, 2021

A previously problematic molecule turns out to be a reliable proxy for reconstructing sea ice, a new study by Brown University researchers shows.

Bomb cyclone in northern Pacific Ocean breaks all-time records

The Washington Post - December 30, 2020

The storm presented an amazing contrast from a possible world record high-pressure zone over Mongolia.

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Weather Eye with John Maunder

<https://www.sunlive.co.nz/blogs/15244-tauranga-december-rainfalls-18982020.html>

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