

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.

News

[Detecting solar flares in real time](#)

December 23, 2019 - National Science Foundation

Computers can learn to find solar flares in vast streams of images and help scientists issue timely space weather alerts, according to a new NSF-funded study. The research was published in the Journal of Space Weather and Space Climate.

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[NASA analyzes Tropical Cyclone Phanfone's water vapor concentration](#)

December 23, 2019 - Phys.org

When NASA's Aqua satellite passed over the Northwestern Pacific Ocean, water vapor data provided information about the intensity of Tropical Cyclone Phanfone.

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[Flood alert: Researchers devise powerful new flood monitoring system for Japan](#)

December 20, 2019 - Phys.org

A team of researchers led by Institute of Industrial Science, the University of Tokyo (UTokyo-IIS) and the Japan Aerospace Exploration Agency (JAXA) have developed a powerful new system for accurately forecasting flood events.

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A 'Category 3' Atmospheric River is heading our way -- but what does that mean?

December 19, 2019 - Seattlepi.com

It doesn't sound quite as exciting as a "Polar Vortex" or "Bombogenesis" but a Category 3 or 4 "Atmospheric River" is making its way toward the Pacific Northwest at the end of this week, bringing heavy rains and potential for flooding.

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Reporting on climate change from Cape Cod, where sea levels could put everything at risk

December 19, 2019 - USA Today

As carbon emissions increase globally, sea levels on the Cape continue to rise. If that's the case, we'll see wetter, more intense and disruptive storms, even tornadoes.

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NASA Awards Launch Services Contract for Environmental Satellite Mission

December 18, 2019 - Morningstar

GOES-T is the third spacecraft in the next generation GOES-R Series of geostationary weather satellites operated by the National Oceanic and Atmospheric Administration (NOAA).

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How quantum computing could help solve climate change

December 18, 2019 - Mic

Breakthroughs in quantum computing may hold the key to quickly, efficiently and effectively sucking pollution right out of the sky.

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Meteorologists can finally stop throwing out good data on hurricanes

December 18, 2019 - Quartz

Whenever a hurricane begins to brew in the Atlantic, mountains of data pour into weather models to help meteorologists forecast where the storm will go and how strong it'll get.

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Buzz! Cellphones now warn of traffic-snarling snow squalls

December 19, 2019 - Associated Press

The National Weather Service decided last year that snow squalls were a serious enough threat to merit emergency alerts like those for tornadoes and flash floods.

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Decade in review: Here are 10 of the biggest U.S. weather stories of the 2010s

December 30, 2019 - SFGate

Catastrophic floods. Cataclysmic hurricanes. Raging wildfires. Killer tornadoes. Here's a look back at some of the most memorable weather events of the decade.

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NASA sees Mauritius covered by Tropical Storm Calvinia

December 30, 2019 - Phys.org

Tropical Cyclone Calvinia formed on Dec. 29 and by the next day, its clouds from a band of thunderstorms on its western side had blanketed the island of Mauritius in the Southern Indian Ocean.

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20 Experts Predict The Most Significant Weather And Climate Advances Of The Next Decade

December 30, 2019 - Forbes

20 experts weigh in on the next great advances in weather and climate in the next decade.

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Lightning can help predict rapidly intensifying storms

December 30, 2019 - Tampa Bay Times

The first space-based lightning tracker “has the most potential for forecasting rapid intensification.”

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NASA finds heavy rain potential in tropical storm Sarai

December 27, 2019 - EurekAlert!

NASA analyzed the cloud top temperatures in Tropical Storm Sarai using infrared light to determine the strength of the storm.

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Understanding Distant Dust In Other Solar Systems Is Key To Imaging Exo-Earths, Says NASA

December 27, 2019 - Forbes

To better understand such solar system dust clouds, researchers at NASA’s Jet Propulsion Laboratory in Pasadena are considering a small earth-orbiting CubeSat mission to better understand our solar system’s cloud of fine zodiacal dust.

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2019 was a brutal year for American farmers

December 27, 2019 - Vox

Record flooding, a delayed harvest, and a trade war with China are hammering US agriculture this year.

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5 Social Media Posts About Weather That Need To Go Away In 2020

December 26, 2019 - Forbes

Here are 5 weather-related social media posts that need to disappear in 2020

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After four busy hurricane seasons, will 2020 give us a break?

December 25, 2019 - The News & Observer

The atmosphere is leaving scant clues as to its plans for the 2020 hurricane season, but an early forecast is seeing little respite from the yearslong streak of tropical cyclone tumult.

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Russian Proton-M lofts new geostationary weather satellite

December 24, 2019 - NASA Space Flight

Elektro-L No.3 is the third in a series of weather satellites that Russia is deploying to geostationary orbit, from where the satellites can image and monitor the full disc of the Earth.

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That's all this time folks.

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