

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.

[How more than 30 years of China's meteorological satellite data is used by the world](#)

EurekAlert! - July 12, 2021

With more than 30 years of Earth observational data freely available to international partners, the Fengyun Meteorological Satellite program works as part of Earth's operational observation system, along with the United States' National Oceanic and Atmospheric Administration satellites and Europe's polar orbiting meteorological satellite series to provide a more complete picture weather events and their global impacts.

[NASA's AIRS Tracks Record-Breaking Heat Wave in Pacific Northwest](#)

NASA Jet Propulsion Laboratory - July 8, 2021

The science instrument mapped the dome of high pressure that settled over the northwestern U.S. and western Canada in late June, sending temperatures into the triple digits.

[Mapping extreme snowmelt and its potential dangers](#)

Phys.org - July 12, 2021

To better understand the processes that drive such rapid melting, researchers set out to map extreme snowmelt events over the last 30 years. Their findings are published in a new paper in the Bulletin of the American Meteorological Society.

[NOAA to take first step toward a small satellite constellation](#)

SpaceNews - July 7, 2021

It's a good thing the National Oceanic and Atmospheric Administration has plenty of time to prepare for its next generation of polar-orbiting weather satellites — because the changes the agency is contemplating are dramatic.

[Health warnings as Death Valley scorches in 54.4C heat](#)

The Guardian - July 12, 2021

Excessive heat warnings remained in place across swathes of the western US on Monday after Death Valley in California registered what could prove to be the highest reliably recorded temperature on Earth.

[Remotely-piloted sailboats monitor 'cold pools' in tropical environments](#)

ScienceDaily - July 8, 2021

Researchers used remotely-piloted sailboats to gather data on cold air pools, or pockets of cooler air that form when rain evaporates below tropical storm clouds. These hard-to-study phenomena are thought to have broader effects on tropical weather.

North America Has Its Hottest June on Record

The New York Times - July 7, 2021

An analysis by European scientists found that other parts of the world didn't fare much better, with Europe logging its second-hottest June.

Isotopes From Cave Stalactites Show More Intense and Frequent Thunderstorms Linked to Global Climate Variability

SciTechDaily - July 6, 2021

Using isotopes from Texas cave stalactites, scientists in Texas A&M's College Of Geosciences studied thunderstorm changes in the Southern Great Plains.

Elsa becomes 1st Atlantic hurricane of 2021

AccuWeather - July 2, 2021

Hurricane Elsa formed over the waters of the Atlantic Ocean early Friday just west of the Caribbean island of Barbados, one day after the system became the fifth-named storm of 2021.

Heat wave in US and Canada summed up in one staggering satellite image

Cnet - July 2, 2021

A satellite mission logged a land surface temperature of 156 degrees Fahrenheit in Washington state.

Uganda Advances Toward Launching Its First Satellite

Eos - July 1, 2021

A new ground station and an expanded education network will lead to the launch of a security and Earth observation satellite in 2022.

To understand the future of hurricanes, look to the past

ScienceDaily - June 29, 2021

New research highlights the importance of understanding sea surface temperatures patterns in predicting future hurricane frequency.

The woman who brought us the world

MIT Technology Review - June 29, 2021

A half-century ago, Virginia Tower Norwood '47 invented the first multispectral scanner to image Earth from space. Landsat 1 and its successors have been scanning the planet continuously ever since.

A Cirrus Sign of Tornadoes

NASA Earth Observatory - July 5, 2021

Severe thunderstorms can draw plumes of cirrus clouds into the stratosphere, a sign that tornadoes, large hail, or damaging winds may be coming soon.

Satellites capture smoke from Canadian wildfires

Yahoo!News - July 2, 2021

Severe wildfires are burning in western Canada after record-breaking high temperatures.

Nowhere Is Ready for This Heat

The Atlantic - June 29, 2021

The Pacific Northwest is melting now, but all across America the infrastructure we have was built for the wrong century.

Wildfire engulfs village that set Canada's all-time heat record

The Washington Post - July 1, 2021

Lytton, which saw 121 degrees Tuesday, was in flames Wednesday night as massive blazes erupted in British Columbia.

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Weather Eye with John Maunder

<https://www.sunlive.co.nz/blogs/15781-tauranga-june-rainfalls-18982021.html>

<https://www.sunlive.co.nz/blogs/15802-the-year-without-summer.html>

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