

New Zealand weather and climate news

Courtesy of MetService Library

MetService mentions

Weather: Warnings of 'high-impact rainfall', motorists urged to 'stay alert'

Newshub

MetService on Wednesday morning issued a severe thunderstorm watch for the Coromandel Peninsula, Waikato, Waitomo, Taumarunui, Bay of Plenty ...

Weather: Severe thunderstorms expected to erupt over North Island skies

Stuff.co.nz

MetService is warning of severe thunderstorms for Auckland, Coromandel Peninsula, Waikato, Waitomo, Taumarunui, Bay of Plenty, Rotorua, Taupō, ...

Wild weather: Power cut warnings with heavy rain to lash Auckland and much of North Island

New Zealand Herald

MetService is warning strong winds and heavy rain on Wednesday could cause trees to topple onto powerlines and result in power cuts in the area, ...

Heavy rain causes flooding chaos in Te Awamutu

A burst of heavy rain caused flooding in Te Awamutu, damaging Christmas stock in shops and causing the roof of a café to collapse.

Flooding on New Plymouth streets as downpours pound North Island

Flooding and slips are causing disruption across Taranaki and the council has mobilised its emergency response teams as heavy rain pounds much of the North Island.

Water, water everywhere - heavy rain leads to flooding in Taranaki, while a slip partially blocks SH3 in the region's south

Hours of constant rain on Wednesday morning caused surface flooding and traffic chaos around Taranaki.

Weather: Plane hit by lightning, flooding in Waikato as storms roll across North Island

Severe thunderstorms over the North Island on Wednesday are causing heavy downpours, slips and flooding.

Weather: Wet weather to blanket country as central North Island braces for heavy rain

Stuff.co.nz

... you are in New Zealand, unfortunately, you are going to get some rain and some wind,” **MetService** meteorologist Tui McInnes said on Monday.

MetOcean

MetOceanWorks delivering metocean design criteria for the Arklow Bank offshore wind farm

Windtech International

SSE Renewables has engaged the technical expertise of MetOceanWorks to deliver detailed **metocean** design criteria for the Arklow Bank Wind Park.

NIWA

Fiordland Air Sharing Secrets With Scientist

Peter Sperlich needs a strong south-westerly and a cast iron stomach for his next scientific mission.

WMO

Landmark Data Conference sets the scene for change

Posted:

A landmark Data Conference convened by the World Meteorological Organization (WMO) has set the scene for a comprehensive modernization of the roles, rules and requirements for the international...

Carbon dioxide levels continue at record levels, despite COVID-19 lockdown

Posted:

The industrial slowdown due to the COVID-19 pandemic has not curbed record levels of greenhouse gases which are trapping heat in the atmosphere, increasing temperatures and driving more extreme...

Extreme weather (and other news) – Australia and the Pacific

Spring scorcher: 4500 kilometre-long heatwave set to smash temperature records in Australia

A 4500km belt of scorching weather stretching from Broome in Australia's northwest all the way to the country's southeast could prove "dangerous" in the coming days, a climate scientist has warned.

Queensland BOM forecast predicts more cyclones than usual this year due to La Niña warming Coral Sea

More than four tropical cyclones are likely to form in the Coral Sea this summer, the Bureau of Meteorology (BOM) has predicted.

Extreme weather (and other news) – Americas and Europe

PHOTOS: Labrador buried under historic 70+cm of snow, towns shut down

The Weather Network US

The **Weather Network**. Tuesday, 24 November 2020 5:01 PM. Labrador is in the midst of a historic blizzard, which shut down everything from roads ...

International news and research

GeoOptics and Spire Global win NOAA weather data contracts

SpaceNews

... concluded, “the commercial sector is capable of providing the quality of **data** needed to help support NOAA's operational **weather forecasting** needs.

Lunar Gateway Instruments to Improve Weather Forecasting for Artemis Astronauts

Space Ref

The two instrument suites will begin monitoring the lunar radiation environment and return **data** before crews begin to arrive. Reinforcing decades of ...

Scientists Detect 'Superbolts' 1000 Times Brighter Than Typical Lightning Strikes

ScienceAlert

Superbolts were first detected from satellite data in the 1970s, being ... a detector strapped to **weather satellites** and sent into orbit to record flashes of ...

Ice 'pancakes' form in South Saskatchewan River: See them here

The Weather Network

The melting ice sinks, inducing a circular motion, according to Weather Network meteorologist Tyler Hamilton. See more here: Share.

The science of windy cities

Posted: 23 Nov 2020 02:34 PM PST

Researchers model urban airflows to help improve the design of drones, skyscrapers, and natural ventilation systems.

Flow physics could help forecasters predict extreme events

Posted: 23 Nov 2020 01:10 PM PST

Researchers are studying a tornado's song and other 'doors to danger' in an increasingly chaotic world.

Shift in atmospheric rivers could affect Antarctic sea ice, glaciers

Posted: 23 Nov 2020 09:07 AM PST

Weather systems responsible for transporting moisture from the tropics to temperate regions in the Southern Hemisphere have been gradually shifting toward the South Pole for the past 40

years, a trend which could lead to increased rates of ice melt in Antarctica, according to new research.

Health

Cloudy with a chance of migraine: the weather app with a difference

Financial Times

The first is as a pioneering, long-overdue **innovation** that may very well be helpful to some proportion of people, however small that group may be.

=====

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.

Flow physics could help forecasters predict extreme events

ScienceDaily - November 23, 2020

Researchers are studying a tornado's song and other 'doors to danger' in an increasingly chaotic world.

GeoOptics and Spire Global win NOAA weather data contracts

SpaceNews - November 23, 2020

The National Oceanic and Atmospheric Administration awarded its first contracts Nov. 20 to purchase radio occultation data from commercial satellite operators GeoOptics and Spire Global.

Weather Satellite's Instruments Find a Home at the Smithsonian

NOAA - November 17, 2020

NOAA's Geostationary Operational Environmental Satellites (GOES) have a long history of monitoring the Earth's ever-changing weather from above. Now, some of that history will be put on display at the Smithsonian's Air and Space Museum in Washington, DC.

2020 Joins List of 10 Most Extreme Atlantic Hurricane Seasons in Satellite Era

The Weather Channel - November 18, 2020

The 2020 Atlantic hurricane season is now among the 10 most active seasons in more than five decades following Hurricane Iota's intensification into a Category 5 earlier this week.

Word choice matters in weather communications

UGA Today - November 19, 2020

Research shows certain phrases can make people feel helpless when facing storms.

A record hurricane season is ending. What does climate change have to do with it?

PBS - November 21, 2020

With this record Atlantic Hurricane season officially ending this month, Hari Sreenivasan speaks with Kevin Reed, a professor at Stony Brook University and director of the Climate Extremes Modeling Group about the connection between climate change and hurricanes.

More Frequent, Severe Climate-Fueled Disasters Exacerbate Humanitarian Crises

Scientific American - November 18, 2020

People have little time to recover when extreme events happen back-to-back, the International Federation of Red Cross and Red Crescent Societies warns.

Hurricanes Eta and Iota brought disaster to Central America. Officials can't retire their names.

The Washington Post - November 17, 2020

Meteorologists are pushing to change the existing naming convention.

=====

Weather Eye with John Maunder

www.sunlive.co.nz/blogs/15160-tropospheric-temperatures-january-1979-to-october-2020.html

=====

Thanks to our regular contributors