

New Zealand weather and climate news

Courtesy of MetService library

MetService mentions

Weather: Ex-cyclone 'fair way away' from mainland, but heavy rain, gales still on cards

Stuff.co.nz

MetService **meteorologist** Andy Best said the ex-cyclone was briefly visiting **New Zealand**, but wouldn't be passing over the mainland. He said it was ...

Your weather: Cyclone Gretel to bring rain, strong wind to North Island

New Zealand Herald

The **MetService** watch has been issued for Northland and Auckland from northwards of Warkworth, Great Barrier Island and Coromandel Peninsula.

Weekend of sun set to change with mix bag of weather ahead for Hawke's Bay

New Zealand Herald

MetService Meteorologist Paul Ngamanu said while the week ahead at times is mostly fine we should expect periods of showers and some heavy ...

Hawke's Bay's hope for rain short lived as dry weekend forecast

New Zealand Herald

MetService meteorologist Tuporo Marsters said although the region managed to get a bit of rain on Friday it doesn't look like it is set to build at the ...

Nasa cancels Wanaka launch over Covid-19 fears

Nasa has cancelled its planned launch from Wanaka Airport of a super pressure balloon next month.

Fallen tree blocks SH5, Clifton Beach closed amid high winds

New Zealand Herald

MetService had a strong wind watch warning in place from 8am Tuesday to 4am Wednesday and it caused a few problems. Axel Alexander came ...

Ex-tropical cyclone to bring gale force winds, brief rain to northern NZ

New Zealand Herald

While rain won't be a factor, the **MetService** has issued a watch for gales, with some severe, for Northland, Coromandel, northern Auckland, the ...

NIWA

NIWA's Hotspot Watch

A weekly update describing soil moisture patterns across the country to show where dry to extremely dry conditions are occurring or imminent. Regions experiencing significant soil moisture deficits are deemed "hotspots". Persistent hotspot regions have the potential to develop into drought.

Volunteers Needed To Unlock Historic Weather Secrets

NIWA climate scientists are asking for volunteers to help give its historic weather project a quick, sharp boost.

The scientists have accumulated a mass of weather data for a special project focused on a week in July 1939 when huge snowstorms blanketed the country – but the problem is the records are all handwritten and now need to be keyed into a computer.

WMO

COVID-19: WMO postpones meetings through to June

In the light of the global spread and impact of COVID-19, and mindful of the importance of taking mitigating measures against the virus, the World Meteorological Organization has decided to postpone...

ECMWF

In conversation with... Florian Pappenberger

The Parliament Magazine

The relationship between **weather forecasting** and flood prediction is set to become stronger ... How can ECMWF **data** help us to understand that link?

Volcano alert/watch

Mount **Ruapehu**: Crater Lake temperature rises, GNS Science closely monitoring

Newshub

Although Mount **Ruapehu** last erupted in 2007, there have been a number of GeoNet **alerts** over the last 13 years **warning** of irregular activity. Its last ...

Extreme weather (and other news) – Antarctica and offshore

New research first to relate Antarctic sea ice melt to weather change in tropics

While there is a growing body of research showing how the loss of Arctic sea ice affects other parts of the planet, a new study is the first to also consider the long-range effect of Antarctic sea ice melt. It estimates that Arctic and Antarctic ice loss will account for about one-fifth of the warming that is projected to happen in the tropics.

Extreme weather (and other news) – Australia and Pacific

'Wave of heat' set to arrive in Sydney

The Sydney Morning Herald

Both the Indian Ocean Dipole and the **El Nino** Southern Oscillation in the Pacific will remain in their neutral phases through the coming winter, the ...

Extreme weather (and other news) – Asia and the Middle East, Africa

Worst **Weather** in Decades Kills 20 in Egypt

Asharq Al-awsat English

Authorities shut down Luxor International Airport, a key hub for tourists, and three **seaports** — the Mediterranean **port** of Alexandria and the Red Sea ...

International news and research

National **Weather** Service faces coronavirus quandary, unable to implement across-the-board

...

Washington Post

... the National Hurricane Center; and the NOAA satellites center, which ensures continued operation of the country's fleet of **weather satellites**.

AccuWeather predicts 1350-1450 tornadoes for 2020

Runnels County Register

Hide caption. A graph of tornado deaths by decade. Graph courtesy of **AccuWeather**.

Verizon just spent \$1.6 billion on new millimeter-**wave spectrum**, but why?

Best gaming pro (blog)

In a transfer that is each stunning and anticipated on the identical time, Verizon has simply purchased up a metric ton of millimeter-wave 5G spectrum ...

Hi-Res GIS **Weather** Layers Are Essential To **Business** And Government

Forbes

In the case of **weather**, GIS technology gives geographers and **business** analysts a way to visualize **weather** data as it relates to their assets geospatially.

Can AI help mitigate the impact of the weather?

FreshPlaza.com (press release)

AI and **data** modelling are offering new ways to mitigate the impact: bespoke **weather forecasting** to optimise crop scheduling; a novel way to predict ...

You could help build a better **weather** forecast model

WJXT News4JAX

Sharing this code will enable academic and industry researchers to help NOAA accelerate the transition of research **innovations** into operations. This ...

Emissions of several ozone-depleting chemicals are larger than expected

Researchers have found that much of the current emission of these gases likely stems from large CFC 'banks' -- old equipment such as building insulation foam, refrigerators and cooling systems, and foam insulation, that was manufactured before the global phaseout of CFCs and is still leaking the gases into the atmosphere. Based on earlier analyses, scientists concluded that CFC banks would be too small to contribute very much to ozone depletion, and so policymakers allowed the banks to remain.

National Weather Service provides online school and storm spotter classes to learn about weather

WKRK News 5

... global weather, clouds, upper air, upper air charts, synoptic meteorology, thunderstorms, lightning, derechos, tropical **weather**, **radar**, satellites, and ...

Weather companies

New Fathym Forecaster Provides Forecast Out to 120 hrs. Globally

ThomasNet News

Offers a powerful suite of **weather forecasting** and low-code **data** visualization tools; Provide developers **weather forecasting** capabilities over ...

Communications/social media

Integrating Your Mass Notification System to Provide the Greatest Reach

Campus Safety Magazine

Emergency managers have a variety of alert **technologies** available and ... be used to alert individuals about a variety of threats, including **weather**-related ... While some view outdoor warning sirens as archaic, the **technology** has ...

6 Tips for Spotting Fake News on Social Media

In the days of print media, it was easy to notice when someone was telling a lie in their tabloids. Typically, the stories had outrageous headlines that made us laugh. In the last decade, these fake stories are no longer funny, but they're manipulative.

With the rapid speed that information is shared in today's world, it can be challenging to separate the news from the noise and the true from the false. While some sites, The Onion, for example, intentionally write satire, others intentionally disguise themselves as real.

How To Secure Your Social Accounts From Hackers

In today's world, social media accounts are crucial for personal as well as business needs whether it's in the form of running and managing your social media business pages, Youtube channel or anything else.

It's not surprising that every year thousands of people's social media accounts get hacked all the time and they lose all of their hard-earned followers.

Weather Whys: How does the green screen work?

FOX21News.com

The directors in our control room use a program to select the green color of the chroma key and replace that with our **weather graphics** or any other ...

Coronavirus

Dos and Don'ts of self isolation - your questions answered

The main measure to prevent the spread of the Covid-19 coronavirus has so far been the isolation of people believed to be at risk. Here's a guide with all you need to know about self-isolation.

Advice to employers coping with Covid-19 isolation

More than 9000 New Zealanders are in isolation as the country deals with the global outbreak of the Covid-19 coronavirus, but what issues is this throwing up for employers?

Employees Covid-19 questions answered

It's predicted the economic impact of the Covid-19 pandemic will be worse than the Global Financial Crisis, and despite the government's \$12.1 billion relief package, Finance Minister Grant Robertson says he expects people will lose jobs because of the impacts of the coronavirus.

So what rights do employees have at this time? We put some questions to employment law advocate Ashleigh Fechny.

Washing your hands isn't enough, your smartphone is full of germs and bacteria — here's how to safely clean it without ruining its screen

- The best way to clean your smartphone safely without damaging its screen or internal components is to wipe it down with a lightly dampened microfiber cloth.
- Apple also recently said that it's safe to clean its products with a Clorox Disinfectant Wipe or 70% isopropyl alcohol wipe.

Keeping anxiety in check amidst uncertainty

We're heading into the dark with Covid-19, and humans are scared of the dark: it's unknown, mysterious, and very possibly dangerous.

But what sort of mental toll is this taking? How should we be talking to our kids about COVID-19? And if you know you're an irrational worrier, how do you manage that?

Coronavirus: Can air conditioning systems in buildings spread coronavirus?

Building managers, owners and tenants are worried their air conditioning systems could spread coronavirus.

Coronavirus: How to set up a work-from-home arrangement that won't cause you pain

Growing numbers of New Zealanders are set to be working from home in coming weeks due to the coronavirus.

Pandemic effect 'to extend well into next year': Otago Uni expert

Don't expect the coronavirus pandemic to be over by Christmas.

Instead, New Zealand is set for a long, drawn-out battle with the virus as different waves of the pandemic hit separate countries at different times, experts say.

Farming/horticulture/Aquaculture

Extreme Weather Events Expose Vulnerability of Crops Globally

SupplyChainBrain

A weaker **El Nino** last year brought unusual dryness in key oil palm areas in Indonesia and Malaysia, which will curb production this year, according to ...

Fire

The Hidden Toll of Wildfires

A huge aerial campaign seeks to understand the effects of biomass smoke on human health

Health

How climate change affects your mental health

When bushfires turn the skies in New Zealand orange, and the army is called in to help with drought relief in Northland, feeling anxiety over climate change is a pretty normal reaction.

Lightning

Mapping Lightning Strikes from Space

Eos

... and Atmospheric Administration's (NOAA) Geostationary Operational Environmental Satellite-R Series (GOES-R) **weather satellites** starting in 2016, ...

Satellites and radar

Aboriginal-owned ground station in Alice Springs to expand with new **satellite** tracker built by ...

ABC News

Satellite tracking will soon increase in Central Australia, with a European ... were being used to track **weather** and communication **satellites** only.

Space weather

Met Office to shift Space Weather service to AWS

UKAuthority.com (press release) (blog)

The **Met Office** is planning to shift the main components of its Space Weather service from an internal facility to Amazon Web Services' cloud. Satellite ...

Transport/roading/shipping/freight

Govt plans \$54b transport spend over decade, no petrol tax increase next year

Transport Minister Phil Twyford has pledged to put "the pedal to the metal" on transport spending, signalling an intent to invest a record \$54 billion over the next decade.

<https://www.rnz.co.nz/news/national/412089/govt-plans-54b-transport-spend-over-decade-no-petrol-tax-increase-next-year>

Innovation and technologies and AI

New app from NUI Galway provides real-time weather forecasts

The Irish Times

Known as StreamAIR, the **technology** devised by the Centre for Climate and Air Pollution Studies (C-CAPS) also provides indication of key drivers of air ...

Websites of interest

Floodlines (Podcast series)

Some call it Hurricane Katrina. Some call it the Federal Flood. Others call it the day the levees broke. On August 29, 2005, the city of New Orleans was submerged. That story of hubris, incompetence, and nature's wrath is now etched into the national consciousness. But the people who lived through the flood and its aftermath have a different story to tell. A story of rumors, betrayal, and one of the most misunderstood events in American history. Launching March 12. Hosted by Vann R. Newkirk II.

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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.

Extreme Weather Events Expose Vulnerability of Crops Globally

Bloomberg - March 9, 2020

The world is on course to record its warmest winter ever, unsettling global crop production and raising the risk of food inflation.

Deadly tornadoes reveal new disaster patterns in the Southeast

Popular Science - March 12, 2020

The “outbreak” rate across the U.S. has increased since the 1970s.

Storms wreak havoc on land. We’re only beginning to understand what they do underwater.

Grist - March 10, 2020

One problem: When scientists have looked at the effects of storms on lakes, they haven’t been looking at the whole picture.

Italy's coronavirus response dramatically reduces air pollution emissions, satellites show

Space.com - March 13, 2020

As the world scrambles to confront the disease caused by a novel coronavirus, Italy has been forced to take such dramatic measures that the country's emissions have changed, as seen from space.

NASA sees Tropical Cyclone Herold's eye

EurekAlert! - March 16, 2020

NASA's Aqua satellite passed over the Southern Indian Ocean and captured an image of a well-developed Tropical Cyclone Herold at hurricane strength, east of Madagascar.

How the coronavirus pandemic is similar to a hurricane emergency, and the lessons we can apply

Washington Post - March 16, 2020

Preparing for the novel coronavirus pandemic is similar to facing a hurricane emergency, which might help us think more clearly about it.

American researchers want to fill the oceans with sensors

The Economist - March 12, 2020

Oceanographers are nevertheless fond of saying that science knows less about the high seas than it does about the moon. If John Waterston gets his way, though, that could soon change.

National Weather Service faces coronavirus quandary, unable to implement across-the-board telework

Washington Post - March 11, 2020

The structure of the National Weather Service is not ideally suited to telework, the agency's internal guidance shows.

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John Maunder's weather eye:

<https://www.sunlive.co.nz/blogs/14484-tropospheric-temperatures-1979-to-february-2020.html>

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THANKS TO OUR CONTRIBUTORS

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