

New Zealand weather and climate news

Courtesy of MetService librry

MetService mentions

Hawke's Bay's autumn weather to chill soon

New Zealand Herald

MetService meteorologist Andy Best said the first day of the working week will be mostly fine with northwest breezes. "On Monday we're expecting just ...

Fine Sunday in Canterbury but warnings of heavy rain in parts of the South Island

Stuff.co.nz

The day started out fine and warm in Canterbury, but **MetService** warns of heavy rains tonight for parts of the South Island. Northeasterly winds eased ...

Flooding, lightning ... and a rainbow: A day of wild weather for some in the central North Island

New Zealand Herald

Metservice issued a thunderstorm warning at 1pm for Waitomo and Waikato and across to Taupō and the Bay of Plenty. It expired just before 8.30pm, ...

Severe weather warning remains in place for areas north of Napier, but rain 'perfect' for farmers

New Zealand Herald

MetService meteorologist Amy Rossiter said the region was in for more rain with a slow-moving tropic making its way over the northeast of the country.

Cyclone still causing problems in Buller seven years on

A cyclone that slammed New Zealand seven years ago is still causing headaches for Buller landowners.

Southern Lights displays in 2021 set to be best in years

If seeing the Southern Lights is on your bucket list, 2021 is shaping up to be a good year to tick it off, promising brighter displays than we've seen in some time.

WMO

New study shows socio-economic benefits of weather observations

Posted:

Behind every weather forecast, every early warning of life-threatening hazards, and every long-term climate change projection are observational data. A new report published by the World Bank,...

Extreme weather (and other news) – Antarctica and offshore islands

MetService, GNS visit Raoul Island after earthquakes

Otago Daily Times

MetService and GNS Science staff have returned to Raoul Island for the first time since the 8.1 magnitude earthquake near the Kermadec Islands that ...

Items tumble from pantry, server knocked over on Raoul Island after March earthquakes

Stuff.co.nz

The **MetService** staff would carry out routine maintenance work on the island's weather station and replace a 60-year-old weather balloon launching ...

Antarctic Peninsula warming up due to heat in Tasman sea

Posted: 09 Mar 2021 07:01 AM PST

The Antarctic Peninsula is melting faster than ever. In a recent study, scientists have revealed how heating in the Tasman sea causes warming of the West Antarctic region and leads to melting of ice and rise in sea levels. They suggest that wind streams flowing towards poles from the tropics play an important role in these oceanic and temperature variations. These findings can be helpful to populations that are vulnerable to sea level rise.

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

Australia's first **satellite** that can help detect bushfires within one minute of ignition set for launch

ABC News

And the Bureau of **Meteorology's** submission says: "Access to data from foreign-owned **satellites** depends on the capacity of foreign **meteorological** ...

Australian cities at risk of becoming 'unliveable' as shrinking green spaces create 'heat islands'

Most major Australian cities will be far hotter than forecast in coming years, as a lack of vegetation creates "heat islands," especially in poorer areas, a new report warns.

Extreme weather (and other news) – Americas and Europe

Met Office's drive to understand remote weather sensing saves reinventing the wheel for ...

Knowledge Asset - GOV.UK blogs

The **Met Office** was founded in 1854 and has pioneered the science of meteorology and its application. They provide critical weather services and ...

International news and research

The secrets of the best rainbows on Earth

An atmospheric scientist makes an impassioned case for Hawaii being the best place on Earth to experience the wonder of rainbows. He begins by highlighting the Hawaiian cultural significance of rainbows, he reviews the science of rainbows and the special combination of circumstances that makes Hawai'i a haven for rainbows.

What makes a supercell storm so dangerous?

9News

While all thunderstorms cause **lightning**, only a small proportion of the storms we see in **Australia** are considered severe. So, what makes some storms ...

Fishers at risk in 'perfect storm'

Stormier weather will increasingly force fishers to choose between their safety and income, researchers say.

Meteomatics Captures Meteorological Data with Drones to Minimize Risks, Increase Safety and ...

Commercial UAV News

Traditional **weather forecasting** tools and techniques can be relatively ... **airlines**, and airport operators to plan, monitor, manage and assess **aviation** ...

New study shows socio-economic benefits of weather observations

ReliefWeb

Behind every weather forecast, every early warning of life-threatening hazards, and every long-term climate change projection are observational **data**.

America's Cup (and sailing)

Auckland weather: Fine day with high of 25C for day two of the America's Cup

New Zealand Herald

MetService meteorologist Aidan Pyselman said a high of 25C was forecast for Auckland. "It's a settled...day with plenty of sunshine for the fans and ...

Team New Zealand v Luna Rossa: Lighter winds predicted for America's Cup races three and four

Newshub

... water on Friday afternoon. **MetService** forecasts that winds will reach speeds of between 11 and 13km/h, with racing scheduled to begin at 4:15pm.

Aviation

How Do Strong Crosswinds Affect Aircraft Landing?

Simple Flying

Crosswind 'crabbing'. Turbulence and bad **weather** can, to some extent, be avoided by altering the **flight** plan for much of the journey, but it is difficult to ...

Climate change / global warming

LGNZ Climate Change Symposium:
Sessions videos available at our website

At the end of February, we partnered with LGNZ on their annual Climate Change Symposium.

All sessions from the symposium are now available to view at the [LGNZ E-Chats Website](#).

Sessions that were most relevant to climate adaptation and that feature Challenge researchers and end users are also available on our new website. These include: [Flood mapping and access to river data](#); [Climate adaptation under the RMA](#); and [Where are the gaps in adaptation?](#) You can also watch this excellent panel discussion on Māori approaches to climate adaptation below without even leaving your email.

Emergency services / preparation

Ocean rescue of the past and present celebrated with \$1.4m coastguard vessel

Coastguard Nelson has launched a \$1.4 million new boat, the Hohapata – Sealord Rescue, combining a state-of-the-art rescue vessel with a celebration of historic ocean rescue.

Health

COVID-19 risk increases with airborne pollen, study finds

Posted: 09 Mar 2021 07:01 AM PST

New research finds that when airborne pollen levels are higher, increased SARS-CoV-2 infection rates can be observed.

Tropical cyclone exposure linked to rise in hospitalizations from many causes for older adults

Posted: 09 Mar 2021 06:12 AM PST

An increase in overall hospitalizations was reported for older adults in the week following exposure to a tropical cyclone, according to a new study. Over 16,000 additional hospitalizations were associated with tropical cyclones over a ten-year average exposure. The day after tropical cyclones with hurricane-force winds respiratory disease hospitalizations doubled. This study is the first comprehensive investigation of the impact of hurricanes and other tropical cyclones on all major causes and sub-causes of hospitalizations.

History

Weatherwatch: the unsung woman behind modern forecasting

The Guardian

This month is women's history month in the US and an excellent excuse to celebrate women who have changed the field of **meteorology**. There are ...

Journal and articles online

AJEM January 2021 Edition available now

The latest issue of the Australian Journal of Emergency Management, on the topic of warnings, is now available to view online.

The use of satellite data in numerical weather prediction

Roger Saunders

Pages: 95-97 | First Published: 28 January 2021

This article describes the use of satellite data for NWP. It gives a brief history and then outlines the various different ways that satellites measure the atmosphere. Finally, a summary of the impact in the UK Met Office Unified Model of the different types of satellite and *in situ* observations is given.

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Weather Eye with John Maunder

<https://www.sunlive.co.nz/blogs/15448-tauranga-february-rainfalls-18982021.html>

Thanks to our contributors.