

New Zealand weather and climate news

Courtesy of MetService Library

MetService mentions

Weather: 'Uncomfortably muggy' nights ahead as warm weather washes over

Stuff.co.nz

MetService meteorologist Andy Best explained “uncomfortably muggy” conditions will set in from Tuesday night through to the long weekend.

Labour Weekend: The dream holiday outlook

New Zealand Herald

MetService is forecasting near idyllic conditions for much of the North Island and a huge swathe of the South Island. It's sun-lovers' weather, especially ...

NZ keeps getting warmer – Expert Reaction

Expert Reactions | Published: 15 October 2020

Climate data shows New Zealand is feeling more heatwaves, fewer frosts, rising sea levels, and a decline in taonga marine species.

Our atmosphere and climate 2020 is a report which pulls together data on our changing climate. It estimates that New Zealand's greenhouse gas emissions will decrease in the coming decades, but not at a fast enough rate to meet our 2030 Paris Agreement goals.

Drought fears for South Canterbury, North Otago farmers

South Canterbury and North Otago farmers are concerned they are on the precipice of a drought.

Why NZ faces a higher risk of tropical cyclones this season

New Zealand faces slightly higher odds of an unwanted visit from an ex-tropical cyclone over the next six months, on the back of warmer seas and a building La Nina climate system.

Southwest Pacific Tropical Cyclone Outlook

Scoop.co.nz

MetService's TCWC manager and severe weather expert Chris Noble commented, “This coming season, the El Niño Southern Oscillation (ENSO) cycle ...

Temperatures drop below freezing, snow and hail for North Island, chilly snap to continue

Stuff.co.nz

Metservice meteorologist Tahlia Crabtree said there had been a low chance of hail in the capital as the front moved up from the south. The front also .

Snow falling on Puketitiri, Hawke's Bay hills - in mid October

New Zealand Herald

MetService meteorologist Lewis Ferris said while there was a "small possibility" rain could dampen the mood at McLean Park, the rain should have ...

NZX, **Metservice** attacks show Kiwi companies must rethink cyber security

bizEDGE New Zealand

The spate of brazen cyber attacks against strategically important organisations like the NZX and **Metservice** must prompt Kiwi businesses to rethink ...

WMO

Global forum promotes resilient cities

Posted:

The 15th annual Global Forum on Human Settlements took place virtually on October 15-16, with the theme of “Post-Pandemic Recovery and Transformation: Resilient Cities, Healthy Planet.”

Solomon Islands holds marine and ocean services workshop

The Solomon Islands has six major Islands and over 900 smaller islands. More than 75% of the population live in the rural areas, mostly around the coast. Surrounded by ocean, most of the rural...

September was the warmest on record

It was the warmest September on record for the globe. The first nine months of 2020 were the second warmest on record (after 2016), according to the U.S. National Oceanic and Atmospheric...

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

Up to 10 tropical cyclones forecast for Pacific, some up to a severe category 3

At least three severe tropical cyclones are forecast for the Pacific in the next six months, and New Zealanders are being urged to be vigilant.

MET Office works with maritime operators to prevent lives lost at sea

Matangi Tonga

This year alone, the toll is already at five." He said because the weather warning and maritime radio mandate is with the **MET Office**, this workshop ...

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

Norway and Finland celebrated the 75th Anniversary of Vietnam Meteorology and Hydrology

ScandAsia.com

Kari Kahiluoto attended the 75th Anniversary Ceremony of Vietnam **Meteorology** and Hydrology on 3 October 2020. It was a great opportunity for the

Extreme weather (and other news) – Americas and Europe

WASH OUT Unusual 'cyclonic' change to see Ireland swamped by floods, Met Eireann warns

Sunday World

According to the UK's **Met Office**, weather phenomenon La Nina could bring colder winter months to Ireland. The phenomenon, which occurs once ...

Rare weather event could bring heavy snow to Ireland

Offaly Express

Professor Adam Scaife, head of long range prediction at the UK **Met Office** said: “La Niña has a profound ...

Met Office confirms UK had its wettest day on record after Storm Alex

The Guardian

Dr Mark McCarthy, head of the **Met Office's** National Climate Information Centre, said: “In climate statistics, 2019 will be remembered for possessing the ...

UK Weather: Wettest day since records began saw Storm Alex bring enough rain to fill Loch Ness

The Sun

The **Met Office** said the start of October has been very wet, with the UK overall already having 68% of its average rainfall for the month. More than 20 ...

Iowa derecho in August was most costly thunderstorm disaster in US history

Washington Post

In an October update to its database of billion-dollar **weather** disasters, the ... Some of the hits to agriculture may fall through the cracks of **insurance** ...

Storm Barbara to bring wind and rain to Europe

Met Office

Met Office Chief Meteorologist, Frank Saunders, said; “Tomorrow (Tuesday) a low-pressure system, separate to Storm Barbara, will cross Ireland and ...

International news and research

Flash droughts are a new type of extreme weather event

Scientists are figuring out how to pinpoint the onset of a flash drought

Advertising/promotion

Maine meteorologists exchange bogus accusations in funny 'attack ads'

pressherald.com

Maine **meteorologists** exchange bogus accusations in funny 'attack ads'. The spots spark a faux feud among News Center Maine (WCSH/WLBZ) ...

Climate change / global warming

Climate change: Why some New Zealanders still deny it's happening

There's now overwhelming scientific evidence to show our climate is changing - so why do some people still refuse to accept the consensus?

New Zealand researchers have delved into the complex psychology behind climate denial in this country, to explain why conservative white men are more likely to be sceptics.

Climate change already having 'profound impact' as fire risk rises - report

Not as clean and green as you might think - and New Zealanders need to stop driving so much. That's the message from the Ministry for the Environment's latest report, Our Atmosphere and Climate, which measures emissions in Aotearoa and their major drivers.

APRA says \$3.5b investment in climate resilience needed

The Australian Financial Review

Head of insurance Geoff Summerhayes said climate change was causing more frequent and powerful extreme weather events, and pre-emptive ...

Climate Change Will Increase Weather Disasters and Need for Humanitarian Aid: UN

Insurance Journal

GENEVA – In the wake of heat waves, global warming, forest fires, storms, droughts and a rising number of hurricanes, the U.N. weather agency is ...

Carbon Watch & 50 years of CO2 measurements in NZ

Carbon Watch NZ is a collaborative project to measure our greenhouse gases – where they are coming from and where they are going to.

Are climate scientists being too cautious when linking extreme weather to climate change?

Climate science has focused on avoiding false alarms when linking extreme events to climate change. But it could learn from how weather forecasters warn the public of hazardous events to include a second key metric: the probability of detection.

Covid-19 / Business

NZIER's QSBO shows business confidence improving as demand lifts - Quarterly Survey of Business Opinion, October 2020

20 October 2020

New Zealand Institute of Economic Research (Inc)
Media release, 20 October 2020
NZIER Quarterly Survey of Business Opinion

Embargoed until 10am 20 October 2020

The latest NZIER *Quarterly Survey of Business Opinion* (QSBO) shows business confidence has improved, reflecting a pick-up in demand over the September quarter.

Roadmap for recovery: briefing to the incoming government

The New Zealand Initiative

8 Oct 2020 | Report | Economics

New Zealand faces its worst recession in nearly a century. Unfortunately, the economic response to the challenges of Covid-19 leaves much to be desired. Most new policy initiatives proposed in the run-up to the 2020 general election range from trivial at best to economic sabotage at worst. Promoting employment, growth and productivity, and a credible path back to sustainable debt levels is critical. The New Zealand Initiative has developed a number of key recommendations, outlined in this report.

Energy and Mining

Kiwi looking to expand DNO flex procurement platform internationally

Current News

Kiwi Power has provided its virtual power plant (VPP) software to **Western Power** Distribution's Flexible Power project with further expansion ambitions ...

Fire

Blaze unlike any other seen in NZ, fire researcher says

Otago Daily Times

... worked with property owners and **Fire and Emergency New Zealand** (Fenz) staff to better understand the early October fire's behaviour and spread

What will La Nina mean for fire danger this summer?

A La Nina climate system - partly blamed for the wildfire that just devastated Lake Ohau Village - could spell a busy summer for fire crews in some parts of the country.

Innovation and technologies and AI

UAlbany Partners on New **Weather Forecasting** Tool for New York Utilities

Newswise

“We are combining resources with our partners to instead create a single model that incorporates all weather **data**, along with other measurements, on a .

SpaceX to explore ways to provide **weather** data to US military

SpaceNews

The consortium in June awarded \$309 million in contracts to Raytheon **Technologies**, General Atomics Electromagnetic Systems, and Atmospheric & ...

Technology Will Prevent Another Great Galveston Hurricane

EDM Digest

Weather forecasting was primitive in those days. Citizens and local officials relied on spotty reports from ships stationed in the Gulf of Mexico. Citizens ...

Satellites and radar

New report shares details about the China Land-based **Weather Radar** Market

TechnoWeekly

The global China Land-based **Weather Radar** market size is expected to gain market growth in the forecast period of 2020 to 2025, with a CAGR of ...

Transport/roading/shipping/freight

TfW and Network Rail introduce new technology to limit impact of autumnal weather

Global Railway Review

Two new solutions – Automated Intelligent Video Review cameras and plasma **technology** – have been introduced on the TfW network to combat the ...

Planning Port and Terminal Operations in Unique Weather Environments

The Maritime Executive

If you are a leader at a **port** or terminal facility, you know that **weather** hazards can have an impact on your business profitability, uptime, safety and ...

Weather in pictures

Stunning shot of snow-covered crowds crossing Brooklyn Bridge in blizzard wins Weather Photo of ...

The Sun

Winner Rudolf said: “I made this image in 2018, during a strong blizzard as **El Nino's** periodic warming of water often disrupts normal weather patterns.

Professional interest

Kia ora,

Cawthron Institute warmly invites you to join us online for the 77th Annual Thomas Cawthron Memorial Lecture via live-stream. This year, Cawthron's Annual Lecture is going digital, live-streaming from Nelson using cutting-edge technology, graphics and animation to create an engaging online experience for our audience. We'd love for you to tune in to this innovative event, [pre-register to attend by clicking here.](#)

Three expert speakers will offer their perspectives on the theme ‘Science Matters’, which will explore the value of scientific research and development to New Zealand’s society, now and in the future.

28 October 2020

Live-streaming at www.cawthron.live from 7pm NZDT

Note: Please ensure you are using a supported web browser such as Chrome, Firefox, Safari or Edge when visiting www.cawthron.live.

[Find out more about the event here.](#)

Featuring Keynote Speakers

- Dr Siouxsie Wiles (Associate Professor, University of Auckland)
- Professor Juliet Gerrard (Prime Minister’s Chief Science Advisor)
- Dr Serean Adams (Aquaculture Group Manager, Cawthron Institute)

[To view speaker biographies click here.](#)

Journal and articles online

Li, G., Cheng, L., Zhu, J. *et al.* **Increasing ocean stratification over the past half-century.** *Nat. Clim. Chang.* (2020). <https://doi.org/10.1038/s41558-020-00918-2>

Seawater generally forms stratified layers with lighter waters near the surface and denser waters at greater depth. This stable configuration acts as a barrier to water mixing that impacts the efficiency of vertical exchanges of heat, carbon, oxygen and other constituents. Previous quantification of stratification change has been limited to simple differencing of surface and 200-m depth changes and has neglected the spatial complexity of ocean density change. Here, we quantify changes in ocean stratification down to depths of 2,000 m using the squared buoyancy frequency N^2 and newly available ocean temperature/salinity observations. We find that stratification globally has increased by a substantial 5.3% [5.0%, 5.8%] in recent decades (1960–2018) (the confidence interval is 5–95%); a rate of 0.90% per decade. Most of the increase (~71%) occurred in the upper 200 m of the ocean and resulted largely (>90%) from temperature changes, although salinity changes play an important role locally.

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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.

New global temperature data will inform study of climate impacts on health, agriculture

ScienceDaily - October 13, 2020

A new data set provides high-resolution, daily temperatures from around the globe that could prove valuable in studying human health impacts from heat waves, risks to agriculture, droughts, potential crop failures, and food insecurity.

New Space Weather Network Extends over Africa

Scientific American - October 16, 2020

Sensors will monitor solar emissions that threaten GPS and radio signals.

U.S.-European Sea Level Satellite Gears Up for Launch

NASA - October 16, 2020

Preparations are ramping up for the 10 November launch of the world's latest sea level satellite.

NASA rainfall imagery reveals Norbert regains tropical storm status

EurekAlert! - October 14, 2020

A NASA satellite rainfall product that incorporates data from satellites and observations revealed that Norbert has regained tropical storm status after showing increased organization and deep convection.

Assessing California Fire Scars

NASA Earth Observatory - October 15, 2020

Following an unprecedented outburst of dry lightning in August 2020, wildfires ignited across the state of California. Raging for weeks to months amid heat waves and dry weather, the fires charred millions of acres and consumed homes, livelihoods, and lives. Now state and federal agencies are working to assess the damage.

Are climate scientists being too cautious when linking extreme weather to climate change?

ScienceDaily - October 16, 2020

Climate science has focused on avoiding false alarms when linking extreme events to climate change. But it could learn from how weather forecasters warn the public of hazardous events to include a second key metric: the probability of detection.

Iowa Derecho This August Was Most Costly Thunderstorm Event In Modern U.S. History

NPR - October 18, 2020

The powerful derecho that swept through the Midwest in August, focusing its destruction on central Iowa, is officially the most costly thunderstorm event in recorded U.S. history.

Weather satellite captures stunning fall foliage colouring the Eastern U.S.

The Washington Post - October 15, 2020

The changing colours can be spotted from 22,236 miles above Earth.

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Weathe Eye with John Maunder

<https://www.sunlive.co.nz/blogs/15085-global-temperatures-1996-september-2020.html>

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Thanks to our regular contributors

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