

New Zealand weather and climate news

Courtesy of MetService Library

MetService mentions

MetService issues severe thunderstorm warning for Auckland

Newshub

MetService said the thunderstorms are due to a very humid and unstable northwest airstream which lies over the North Island. "Isolated thunderstorms ...

Hamilton motorists urged to take care after torrential rain, flooding

New Zealand Herald

MetService has issued a number of weather warnings for the central North Island today. That includes a severe thunderstorm warning for the South ...

Severe thunderstorm watch for Northland, Auckland and much of North Island

Stuff.co.nz

The watch was issued by **MetService** just after 8.30am on Thursday and is in place for much of the North Island until 10pm. The watches cover ...

Lucky escape for pair as huge tree collapses on their car during city's dramatic thunderstorm

A pair had a lucky escape from a huge falling tree as it collapsed on their car during a thunderous downpour in Hamilton.

Nine of NZ's 10 most expensive floods connected to 'rivers in the sky'

Research into extreme rainfall events in New Zealand shows nine out of 10 of the country's most expensive floods were associated with concentrated plumes of moisture in the atmosphere, known as atmospheric rivers (AR).

MetOcean

Earthquake cluster: GNS warns people to stay on guard as aftershocks continue

But GNS is warning people to stay on their guard as recent activity has still raised the probability of something larger occurring.

The noisy underwater soundscape of central New Zealand

Stuff.co.nz

A new study of under-**sea** sounds between South Taranaki and Kaikoura will ... Sounds from the Kaikoura earthquake, **weather**, **shipping** and seismic ...

WMO

Water and Climate Leaders Panel is launched

Posted:

A new Water and Climate Leaders Panel came together for the first time on 3 March to catalyse integrated water and climate action for implementing the Sustainable Development Goals. The Water and...

IPCC reschedules Working Group I approval session

Posted:

The Intergovernmental Panel on Climate Change (IPCC) has rescheduled the approval session for the Working Group I contribution to the Sixth Assessment Report (AR6) to 26-30 July 2021 from...

Volcano alert/watch

How do you know where volcanic ash will end up?

Posted: 03 Mar 2021 11:25 AM PST

Until the eruption of Eyjafjallajökull volcano, models from the VAACs were based on the tracking of the clouds in the atmosphere. In the wake of this economic disaster for airlines, ash concentration levels have been introduced to make decisions on flight restrictions. However, a team discovered that even the smallest volcanic ash did not behave as expected. Its results will help to refine the way that volcanic ash is represented in forecasting models.

Extreme weather (and other news) – Antarctica and offshore

NASA's ICESat-2 satellite reveals shape, depth of Antarctic ice shelf fractures

Posted: 04 Mar 2021 09:53 AM PST

When a block of ice the size of Houston, Texas, broke off from East Antarctica's Amery Ice Shelf in 2019, scientists had anticipated the calving event, but not exactly where it would happen. Now, satellite data can help scientists measure the depth and shape of ice shelf fractures to better predict when and where calving events will occur, according to researchers.

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

Cyclone Niran causes damage and injures one in New Caledonia

Cyclone Niran injured at least one person and caused extensive damage in New Caledonia according to early reports.

International news and research

Does lightning strike the same place twice? Debunking some meteorological myths

WTRF

Another known myth is that tornadoes do not hit major cities. StormTracker7 chief **meteorologist** Doctor Dave Walker tells us why that's not true. “ ...

Weather Service set to discontinue 'advisories' for hazardous weather in 2024

Washington Post

It's part of a larger hazard simplification effort; watches and warnings will remain. Image without a caption. A National **Weather** Service map of alerts ...

Reconstructing historical typhoons from a 142-year record

Posted: 03 Mar 2021 11:25 AM PST

A team of scientists has, for the first time, identified landfalls of tropical cyclones (TCs) in Japan for the period from 1877 to 2019; this knowledge will help prepare for future TC disasters.

More extreme short-duration thunderstorms likely in the future due to global warming

Posted: 03 Mar 2021 11:24 AM PST

New research has shown that warming temperatures in some regions of the UK are the main drivers of increases in extreme short-duration rainfall intensities, which tend to occur in summer and cause dangerous flash flooding.

Aviation

Individualised **flight** routes can minimise **planes'** climate impact - German space agency

Clean Energy Wire

"**Forecasting** the **weather** one to five days ahead will improve advance **flight** planning. Short-term **forecasting** will also be incorporated into the final ...

Cloud seeding / Geoengineering

Weather Modification Market is Expected to Touch USD 290.5 Million by 2027

The Courier

Increasing adoption of cloud seeding **technology** due to its advantages such as **weather** regulation and to curb pollution is also anticipated to drive the ...

Communications/social media

RNZ warmer than **TVNZ** on merger in front of MPs

Stuff.co.nz

RNZ and **TVNZ** would be combined into a new public media entity, whose exact mandate has yet to be decided. RNZ chairman Jim Mather has ...

The **TVNZ** merger could improve RNZ, or destroy it. Let's ensure it's not the latter

The Spinoff

TVNZ and RNZ are to be merged. We know this much from several statements from the broadcasting and media minister, Kris Faafoi, most recently ...

Energy and Mining

Field study shows icing can cost wind turbines up to 80% of power production

Posted: 04 Mar 2021 01:10 PM PST

Researchers took their studies of wind-turbine icing out of the lab and into the field to learn how and where ice accumulates on rotating blades. They learned ice on the blades can reduce power production by up to 80%. The field experiments also validated their experimental findings, theories and predictions.

Apparent Atlantic warming cycle likely an artifact of climate forcing

Posted: 04 Mar 2021 01:11 PM PST

Volcanic eruptions, not natural variability, were the cause of an apparent 'Atlantic Multidecadal Oscillation,' a purported cycle of warming thought to have occurred on a timescale of 40 to 60 years during the pre-industrial era, according to a team of climate scientists who looked at a large array of climate modeling experiments.

Korea Western Power to Build 1.7 GW Gas Turbine Combined Cycle Plant in Thailand

BusinessKorea

Korea **Western Power**(KOWEPO) has signed an agreement with Thai Petrochemical Industry Polene Power (TPIPP) and Korea Gas Corp. to jointly ...

Fire

Can Weather Forecasting Technologies Help in Fighting Wildfires?

Flux Magazine

But the conditions could have been worse had it not been for an established network of **weather** forecasting **technologies** such as **weather** stations, ...

Innovation, Technologies and AI

A **Weather** Forecast Website That Can Tell You the Ideal Time to Enjoy Your Outdoor Recreation

North Forty News

While **satellites** can offer extensive coverage worldwide, they cannot provide localized details of a city block. **Weather** stations can come in handy to ...

Sunrise **Weather** app Delivers the **Forecast** with a Beautiful UI

XDA Developers

Sunrise: Local **Weather Forecasts** & Radar Maps is an app that comes from an XDA community member, as a simple and elegant weather app. Sunrise ...

Marketing

Digital audio is making noise for **advertisers in 2021**

The Irish Times

This could be tailoring your audio ads by weather conditions; we recently ran a suite of six different **weather-targeted ads for Halls Menthol Cough** ...

Space weather

Scientists Discover Origin Of Sun's Solar Storms; Can Disrupt **Satellites** On Earth: Study

Republic World

Scientists Discover Origin Of Sun's Solar Storms; Can Disrupt **Satellites** On Earth: Study ... Sun's atmospheric layers, which is important for understanding how it drives space **weather** near the Earth and throughout the solar system.”.

Transport/roading/shipping/freight

BW unlocks 'game-changing' wave and **weather** data in emissions reduction JV

Seatrade Maritime News

BW Group said that data such as speed through water, wave height and **ocean** currents had been the “missing link” in its efforts to find the perfect **vessel** ...

Odd spot

Walker 'stunned' to see **ship** hovering high above **sea** off Cornwall

The Guardian

The illusion is caused by a **meteorological** phenomenon called a temperature inversion. Normally, the air temperature drops with increasing altitude, ...

Journal and articles online

Quantifying the circulation induced by convective clouds in kilometer-scale simulations

Annika Oertel, Sebastian Schemm

Version of Record online: 22 February 2021

Clouds are not passively moved in the atmosphere by wind. Instead, clouds actively influence the flow field in their immediate vicinity. In this study, the flow field generated by clouds is quantified. It is shown that clouds create a flow that is directed against the direction of the wind in which they grow. Hence, clouds propagate more slowly than a passive object, and they are more stationary. This can influence the regional cloud and precipitation distribution.

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Weather Eye with John Maunder

<https://www.sunlive.co.nz/blogs/15424-meteorology-and-americas-cup.html>

Update on my new book *Fifteen shades of climate*

John has recently had a promotion/subscriber prize on a blog, two radio interviews about my new book, plus a cover story in a local newspaper.

My apologies if you may have already received one or more of these links.

A. https://thebfd.co.nz/2021/02/28/we-have-one-signed-copy-to-give-away-2/?utm_source=envelope&utm_medium=website&utm_campaign=SocialSnapone-

B. Radio interview on Magic Radio (100.6 FM) with recently retired Peter Williams who was a news reader on TV1 in New Zealand for many years.

I am on from the 65th minute to about the 125th minute of the 3 hour session. Just check this link.

[magic-morning-6d5fc70c-29b7-4642-b9a0-3ecbc6f3b283](https://www.magicradio.co.nz/2021/02/26/magic-morning-6d5fc70c-29b7-4642-b9a0-3ecbc6f3b283)

C. Cover story in a local newspaper

Life + Style - 26 February 2021

[The Weekend Sun |](#)

D. Podcast of my interview with Leighton Smith

This is the podcast of my interview with Leighton Smith a now retired talk-back commentator on a NZ radio network who now produces a weekly Podcast. Just click on on the linkage. The whole podcast is 81 minutes long and I am on from about the 32nd minute and it lasts about 49 minutes.

[Leighton Smith Podcast: Michael Bassett returns to talk history changes \(newstalkzb.co.nz\)](https://www.newstalkzb.co.nz/podcast/leighton-smith-podcast-michael-bassett-returns-to-talk-history-changes)

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