

New Zealand weather and climate news

Courtesy of MetService library

MetService mentions

Severe thunderstorm watch for Auckland and Northland, risk of damaging winds

Stuff.co.nz

Thunderstorms are approaching the lower North Island and West Coast on Tuesday, the **MetService** is forecasting. Auckland and Northland are in for ...

South Coast communities better protected with new Swell Warning system - WREMO

MetService Manager Marine and Regional Weather Services, Michael Martens says they are delighted to announce the release of the upgraded ...

Towering spiral of water forms off the coast of Napier

Metservice forecaster Tuporo Marsters said the water spout was caused by a very active “storm cell” – a cluster of cumulonimbus clouds out to sea.

Your weather: **MetService** warns Rotorua and Bay of Plenty could be drenched on Tuesday

MetService today issued a severe weather warning for heavy rain for Bay of Plenty, including Rotorua, with between 80-120mm expected later this ...

Heavy rain, possible thunderstorms to hit the North Island as wet weather arrives from the Tasman

Stuff.co.nz

MetService states that 80mm-120mm of rain could fall, especially about the ranges. Rainfall intensities could reach 20mm-25mm per hour during ...

Autumn turns on a mixed weather bag for first week of school holidays

New Zealand Herald

"Nobody is going to get through the week without seeing any rain," said **MetService** meteorologist Tom Adams. His advice to parents is to remember it ...

Northern NZ in for a soaking - but dry spots may miss out

New Zealand Herald

... was fast fading, with the tropics moving back into **El Nino**-Southern Oscillation (ENSO)-neutral conditions, favouring neither La Nina or **El Nino**.

MetOcean (and oceanmet, marine weather etc)

Making waves in **oceanography**: Upwelling defies prior theories

Science Daily

A new scientific discovery in **Australia** by Flinders University has recorded for the first time how ghost currents and sediments can 'undo' the force of ...

Drones roam oceans for climate data

Stuff.co.nz

... brews some of the most extreme winter storms in the Northern Hemisphere, disrupting **shipping** while affecting **weather** throughout the globe.

Ocean temperature reconstructed over the last 700,000 years

Posted: 14 Apr 2021 12:49 PM PDT

Researchers have reconstructed for the first mean ocean temperatures over the last 700,000 years using ice core data. The new knowledge serves to improve our understanding of the climate system.

NIWA

Marine Science and Robots

Dr Leigh Tait joins us to talk about NIWA's recent Antarctic research voyage. A marine biologist, Leigh has a particular interest in the latest underwater cameras, drones, robots etc. that are being used more and more to further work in his field.

WMO

Least developed countries welcome Systematic Observations Financing Facility

Posted:

The Least Developed Countries (LDC) group has welcomed the proposed creation of the Systematic Observation Financing Facility (SOFF) to improve weather forecasts and strengthen resilient development....

ENANDES fosters climate adaptation in the Andes

Posted:

A project that spans about 8,000 km (5,000 miles) across three South American countries has been launched in order to maximize cross-border collaboration to increase the reach of vital...

UN Secretary-General will launch State of the Global Climate in 2020 report

Posted:

United Nations Secretary-General António Guterres and World Meteorological Organization Secretary-General Prof. Petteri Taalas will jointly launch the final report on the State of the Global Climate...

Volcano alert/watch

Volcanic activity remains low at Mt Ruapehu

SunLive

After a temporary cooling period, the Crater Lake (Te Wai ā-moe) temperature is now back to around 40 degrees. The Volcanic **Alert** Level at Mt ...

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

Weather network provides farmers with eye in the sky

Premier of South Australia

Primary producers in the Mallee and Riverland now have access to hi-tech weather information with the \$1.4 million Mesonet **weather network** now ...

Polar outbreak to hit southeast Australia, heavy rain in North Queensland

The Australian

A **road weather** alert has also been issued for all Melbourne suburbs due to reduced visibility from rain during the late morning and afternoon that the ...

BoM floats idea of Antarctic subsea cable and **satellite** upgrades

ZDNet

The Australian Bureau of **Meteorology** (BoM) has pulled out its ultimate ... to Antarctica and improving **satellite** connectivity to its **weather** stations.

NSW floods break 120-year-old rain records during March rain event, BOM says

The entire New South Wales coast experienced its wettest week ever during last month's floods, according to a special report from the Bureau of Meteorology (BOM).

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

Typhoon Surigae intensified with surprising speed, bearing the fingerprint of climate change

Washington Post

When **meteorologists** issued their forecasts for Typhoon Surigae on Friday, they knew the Category 2-equivalent storm had the potential to intensify ...

Typhoon Surigae kills one, displaces more than 100,000 others as it rages off the Philippines coast

At least one person is dead and more than 100,000 others have been evacuated in the eastern and central Philippines as the strongest typhoon recorded in April tracks off the country's coast.

Meteorologists can predict strength of **Asian** monsoon a year in advance

New Scientist

A climate model can now reliably predict the strength of **the Asian** summer monsoon – and tropical cyclone activity associated with it – more than one ...

Fujitsu Renews Key Systems for Japan **Meteorological** Agency

HPCwire

With the growing sophistication of the **technology** and data-collection capabilities, however, the JMA has faced issues including increased operating ...

Extreme weather (and other news) – Americas and Europe

Snow chaos in Europe caused by melting sea-ice in the Arctic

Posted: 13 Apr 2021 08:06 AM PDT

The April snow falling on fruit blossoms in Europe these days may be directly connected to the loss of the sea ice in the Barents Sea in the Arctic. That was definitely the case in 2018 when the sudden cold spell known as 'Beast from the East' descended on the mid-latitudes of the continent, a new study shows.

Rob Woodward reappointed as Chair of the **Met Office**

GOV.UK

Three new non-executive directors, Anusha Shah, Christine Ourmières-Widener and Prof. Jordan Giddings, have also been appointed to the **Met Office** ...

International news and research

URI oceanographer part of pioneering study to improve weather prediction and global carbon ...

URI Today

... which was selected through the Google.org Impact Challenge on Climate to collect **data** that has the potential to transform **weather forecasting** and ...

Fujitsu Renews Key Systems For Japan Met Agency, Contributing To Completion Of Centralized ...

Scoop.co.nz

The Japan **Meteorological** Agency not only collects and analyzes ... periods for new systems, and delays in adapting to the latest **technologies**. To help ...

How high-tech robotic surfboards could change our understanding of the Gulf Stream

Washington Post

... **shipping** and **marine** commerce while affecting **weather** throughout the ... **Ocean** is challenging due to its size, remoteness, and harsh **conditions**,” a ...

IBM revolutionises the Weathercast

Advanced Television

The **Weather Company**, an IBM Business, is revolutionising the weathercast for TV broadcasters around the world. The Max solution suite allows ...

Perceived Versus Actual Risk - Vaccine Lessons **Meteorologists** Understand

Forbes

It is the perfect opportunity to discuss “perceived” and “actual” risk because it is something my colleagues in **meteorology** deal with often.

The **meteorologists** down the street can't tell you about the weather in their institute's hometown

Cambridge Day

Cambridge does. It's at the Massachusetts Institute of Technology – where the **meteorologists** are so concerned with what's happening all over the globe ...

Meteorologists can predict strength of Asian monsoon a year in advance

New Scientist

Yuhei Takaya at the Japan **Meteorological** Agency and his colleagues have developed a climate prediction system that takes into account both ...

Aviation

British Airways Flies 5 Hour **Flight** To Nowhere After **Weather** Radars Fail

Simple Flying

On April 11th, a British Airways 777-200 was **flying** from London to Mumbai when its two **weather** radar systems failed. This failure led to Saudi Arabia ...

Wingcopter and Japan's ANA to accelerate drone medical deliveries

Commercial Drone Professional

... from decades of aviation experience to help Wingcopter, in full compliance with local aviation regulations, succeed in the unique **flight conditions** of ...

'Game-changer' tool for agricultural aircraft safety

A new tool has been launched to make sure agricultural spreader pilots are safer in the air.

Mosgiel technology company TracMap released its new TML-A GPS aviation guidance unit yesterday at a special event at the Otago aerodrome.

Business/Insurance

NZIER's QSBO shows demand holding up - Quarterly Survey of Business Opinion, April 2021

The latest NZIER Quarterly Survey of Business Opinion (QSBO) shows a modest improvement in business confidence in the first quarter of 2021, while demand held steady.

AXIS Capital reveals Q1 catastrophe loss estimate

Insurance Business New Zealand

After tax, the Q1 **range** forecast stands at US\$95 million to US\$105 million. In a release, AXIS Capital said its pre-tax net loss approximation for ...

Ajinomoto joins hand with three partners to create **weather insurance** for Thai farmers

Bangkok Post

... Director, Sompoo Insurance (Thailand) PCL, signed the "MOU Of Database Sharing For Further Creating **Weather Insurance** For Thai Farmers".

Climate change / global warming

To improve climate models, an international team turns to archaeological data

Posted: 14 Apr 2021 12:50 PM PDT

To improve climate models, an international team turned to archaeological data. The resulting classification from the project, called LandCover6k, offers a tool the researchers hope might generate better predictions about the planet's future and fill in gaps about its past.

Communications/social media

The Detail: How the RNZ and TVNZ merger might work

Newsroom

The proposal is for RNZ and TVNZ to be disestablished and a new public media entity created, offering radio, TV, and online content, in a similar vein ...

The Detail: How will a merger of RNZ and TVNZ shape the broadcast media landscape?

In January 2020, RNZ Concert listeners were shell-shocked to learn of plans to shift the classical music station to an AM frequency, and use its existing frequency to create a new, youth-focussed station specifically targeting Māori and Pasifika listeners.

Energy and Mining

Canadian Patent Granted for Improved Energy Forecasting and Weather Normalization

EIN News

The research was supported with funding from the Government of Ontario, through the Ontario Centre of **Innovation**, and the Natural Sciences and ...

Health

In 2016, The World's Deadliest Thunderstorm Asthma Event Occurred. Now We Know What Caused It

IFLScience

All may have played a part, but the timing makes **lightning** the prime suspect. Since 2017 **Australia's** Bureau of Meteorology has issued thunderstorm ...

History

The chasm that swallowed two buses, a doctor and nearly an ambulance

Two men died when two Railways Road Services buses hurtled into a 15m chasm during heavy rain in the Kawarau Gorge. The doctor responding to the call did not see the hole and her Morris Minor also went into the chasm.

The 1967 snowstorm is still one of Canada's worst, and it happened in April

The Weather Network US

On this day in weather history, storms started to pummel Alberta. Listen to The **Weather Network's** This Day in Weather History podcast on this topic, here ...

Innovation, Technologies and AI

AccuWeather Partners with Microsoft to Bring New Capabilities to Microsoft Azure Maps

Daily American Online

In addition, Azure Maps includes AccuWeather severe **weather** alerts ... to **energy** production capacity to consumer **demand** - that will undoubtedly ...

How AI can make **weather forecasting** less cloudy

Livemint

In the pursuit of an ever more detailed rendering, today's models incorporate about 100 million pieces of **data** each day, a level of complexity ...

Lightning

Arctic lightning strikes are on the rise, and the effects could be global

The Weather Network US

A study of 10 years' worth of lightning detection data has found lightning activity has increased along with global temperatures—and with it, the risk of ...

Transport/roading/shipping/freight

What happened to Suez Canal **ship**? How a desert wind blew \$10 billion of global trade off course

ETEnergyworld.com

The **forecast** for Tuesday, March 23, showed wind gusts of more than 40 miles per hour and sand storms sweeping through northern Egypt. Indeed ...

Titanic disaster: 'Greenish beams' seen by survivors spark new theory

New Zealand Herald

The **weather** was calm, the **sea** smooth. The **conditions** extraordinary: bitterly cold. Perfectly still. By this stage, the deathly screams had faded from the ...

Water

Aucklanders should reduce their water use in 30-year strategy

Stuff.co.nz

Tension created between the politicians and the council company **Watercare** which they oversaw, highlighted the need to

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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.

How are asteroids, space weather and space debris detected before they hit Earth?

Space.com - April 16, 2021

They're all a serious threat to our home planet.

AI pinpoints local pollution hotspots using satellite images

ScienceDaily - April 15, 2021

Researchers have developed a method that uses machine learning, satellite imagery and weather data to autonomously find hotspots of heavy air pollution, city block by city block. The technique could be a boon for finding and mitigating sources of hazardous aerosols, studying the

effects of air pollution on human health, and making better informed, socially just public policy decisions.

Weather radars' role in biodiversity monitoring

Science Magazine - April 16, 2021

Biodiversity is changing at an unprecedented rate, and long-term monitoring is key to quantifying these changes and identifying their drivers.

Satellite View: Fierce Fire Season Rages in Nepal

SciTechDaily - April 15, 2021

After an unusually dry winter, forest fires have raged throughout the mountainous country.

A tornado outbreak through the eyes of a meteorologist

Spectrum News 1 - April 17, 2021

There are weather events in the career of meteorologists that can stand out. Those are so significant in their size and scope that their memory lasts.

Scientists look to 'hot spot' for longest weather record

Phys.org - April 20, 2021

Scientists from The Australian National University (ANU) are looking for volunteers to help create Australia's longest daily weather record from a globally recognized climate change "hot spot."

What's Up With 2021'S Weather?

Discover Magazine - April 17, 2021

From a loopy jet stream to climate change, an in-depth look at the factors that have shaped U.S. weather so far this year.

Typhoon Surigae intensified with surprising speed, bearing the fingerprint of climate change

The Washington Post - April 19, 2021

The storm went from Category 2 to Category 5 in a day, its peak winds catapulting to 190 mph.

The Science of Climate Change Explained: Facts, Evidence and Proof

The New York Times - April 19, 2021

Definitive answers to the big questions.

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Weather Eye with John Maunder

www.sunlive.co.nz/blogs/15562-solar-activity-and-next-maunder-minimum.html

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