

New Zealand weather and climate news

Courtesy of MetService library

MetService mentions

Warmer winter predicted, floods possible

Otago Daily Times

However, he said now that **El Nino** Southern Oscillation (ENSO) conditions were "neutral" in the equatorial Pacific Ocean, there might be more ...

Rising rivers explained: Canterbury experiencing 'atmospheric river'

Torrential rainfall in Canterbury caused widespread flooding in low-lying areas that are more usually hit by drought.

Wetter winter coming: Why NZ can expect more 'atmospheric rivers'

New Zealand Herald

While the tropical Pacific was currently stuck in a climate state between La Nina and **El Nino** – called **El Nino**/La Nina Southern Oscillation (ENSO) ...

Canterbury flooding: Adverse event declared in region

Agriculture Minister Damien O'Connor has declared a medium-scale adverse event for the Canterbury region after days of flooding.

Canterbury floods: Is climate change to blame for severe weather events?

Climate change modelling suggests we will see more frequent and more severe weather events. As Canterbury recovers from another flood, reporter JOANNE NAISH asks whether climate change is to blame.

Help with roads, rivers and rubble a priority as farmers take stock of flood devastation

Farmer Darryl Butterick has lost five of his sire stags but his neighbour's cows were the top of his many worries as he surveyed flood damage to his beef, deer and sheep farm in Greenstreet, about 20 minutes inland from Ashburton.

Canterbury flooding: Delays for supermarket deliveries in the South Island

New Zealand Herald

The rare "red warning" issued by **MetService** for Canterbury's extreme weather was lifted last night and **MetService** forecaster Aiden Pyselman said ...

LIVE: **MetService** lifts Red Warning for heavy rain after it eases to showers

TVNZ

8.31pm: **MetService** said with rain now eased to showers across much of the Canterbury region, the Red Warning for heavy rain has been lifted.

Weather: Showers expected for Canterbury but 'things are looking up' after torrential rain

Newshub

Metservice lifted its Red Warning for mid-Canterbury on Monday night, but warns that "rivers will remain swollen for sometime". "Floodwaters will also ...

Insurers won't know cost of Canterbury floods for some weeks

Stuff.co.nz

AMI posted on Sunday evening: "Our thoughts are with the people of Canterbury who are in for some more rough **weather** and potential flooding ...

Marlborough weather watch: Heavy rain and gales forecast for south coast

Stuff.co.nz

MetService on Monday morning issued a yellow severe weather watch for coastal areas south of Ward. Southerly winds could approach severe gale ...

MetOcean

Surfing the massive storm swells on the East Cape

Last week, East Coast locals were warned to stay away from the water due to huge storm swells. One group of experienced Gisborne surfers did the exact opposite and headed for the biggest waves they could find.

WMO

Caribbean rolls out multi-hazard preparations for hurricane season

The Caribbean is gearing up for yet another active Atlantic hurricane season, compounded by the continuing challenges and constraints of the COVID-19 pandemic and the aftermath of a major volcanic...

CMA released the first generation of global atmospheric and land surface reanalysis products

Posted:

On May 13, the first-generation of global atmospheric and land surface reanalysis products (CRA) of China Meteorological Administration (CMA) are officially released in Beijing. CRA products have...

La Niña ends

Posted:

Geneva, 1st June 2021 (WMO) - The 2020-2021 La Niña event has ended and neutral conditions (neither El Niño or La Niña) are likely to dominate the tropical Pacific in the next few months, according...

Global Forum on International Development for Climate Change Response in Asia (3 June, 05:00-09:00 UTC) - Korea Meteorological Administration

Posted:

The international community has made diverse efforts and investments to respond to global climate crisis and achieve shared growth. In line with this effort, the Korea Meteorological Administration...

Volcano alert/watch

Farming fallout from an eruption

SunLive

GNS Science, **MetService** and the Earthquake Commission have joined forces to enhance real-time forecasting models for volcanic ash-fall from the ...

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

Blanca pops up in the eastern Pacific as the second named storm

The Weather Network US

Blanca pops up in the eastern Pacific as the second named storm. Digital Writers The **Weather Network**. Monday ...

Extreme weather (and other news) – Americas and Europe

Heatwave deaths set to soar as UK summers become hotter

The Guardian

Met Office warning over impact of global heating prompts calls for action to protect elderly and vulnerable. Summer wildfire on moorland in the Greater ...

Brits around the country enjoy hottest **weather of the year so far**

The Independent

Brits have been basking in the hottest **weather** of the year so far after a gloomy spring finally made way ... Five **technologies** fighting the climate crisis.

International news and research

Small 'snowflakes' in the sea play a big role

In the deep waters that underlie the productive zones of the ocean, there is a constant rain of organic material called 'marine snow.' Marine snow behaves similarly to real snow: large flakes are rare and fall quickly while abundant smaller flakes take their time. Scientists have now discovered that precisely those features explain why small particles play an important role for the nutrient balance of the oceans.

Sea fret - a look at the foggy phenomenon which spoils sunny days in Northumberland

Northumberland Gazette

Equally, people living right on the coast can awake to find a wall of fog and chilly **weather**, only to discover it is sunny and warm when they pop to the ...

Ancient El Nino-Like Weather System Drove Environmental Change During Human Evolution in ...

The Weather Channel

Ancient **El Nino**-like weather patterns were the primary drivers of environmental change in sub-Saharan Africa when humans were evolving, according ...

National Centre of Meteorology rolls out host of new e-services

WAM EN

Using cutting-edge **technologies**, Rain.ae offers an overview of the global **weather** patterns, as well as accurate forecasts of temperature, humidity, ...

Aviation

Rocket launch and testing site to be built at Christchurch New Zealand

Aerospace Testing International

New Zealand's Minister of research, science and innovation **Megan Woods** said, "Suitable sites for a space launch and aerospace testing facilities are ...

New algorithm to predict storm formation at Madrid-Barajas airport

Explica

Techniques are subsequently applied **machine learning** on this data to get the **weather** forecast. The information has been provided by the Madrid- ...

Business/Insurance

Insurers deploy ground support to help Canterbury residents

Insurance Business New Zealand

As of yesterday, the **MetService** said that rain appeared to be easing across the Canterbury region - however, meteorologist Agnus Hines still warned the ...

Higher **insurance** bills, lower house values: Flooding can have long-term impact

Stuff.co.nz

Owners of flooded homes may also face a long-term house price uncertainty as the frequency of extreme **weather** events increases. Rene Swindley, ...

Tourism businesses in Australia face underinsurance woes

Insurance Business Australia

Businesses in popular tourist destinations continue to struggle as **insurers** refuse to ... In Victoria, a luxury bushland retreat owner claimed that 38 **insurers** ... in making older strata buildings more resilient to extreme **weather** events.

Climate change / global warming

New city 'heat officers' take aim at climate change's 'silent killer'

As urban areas worldwide face a growing threat from heatwaves, they are starting to plan ways to protect their vulnerable residents

Communications/social media

Twitter teams with climate vet to launch local weather news service

Axios

Twitter is partnering with veteran climate journalist and **meteorologist** Eric ... editorial staffers in addition to the 18 professional local **meteorologists**.

Covid-19 / Wellbeing

Covid 19 coronavirus: Ashley Bloomfield says pandemic 'probably not even halfway through'

Director general of health Ashley Bloomfield says all New Zealanders need to keep their guard up as we come into winter cold and flu season on the back of the Melbourne Covid-19 outbreak.

Cyber security and IoT

Cyber security breach reports rise 25%

The number of cyber security incidents reported in this country has risen 25 percent since the same time last year.

Health

Global warming already responsible for one in three heat-related deaths

Between 1991 and 2018, more than a third of all deaths in which heat played a role were attributable to human-induced global warming, according to a new article.

History

Remembering the Columbia River Flood that completely destroyed Vanport, Oregon

Vanport was a city in Oregon that was built in 110 days in 1942. Vanport, which was the state's second-largest city, was mostly made up of wartime public housing. It was located between what is now Portland city boundary and the Columbia River.

Canada's worst peacetime marine disaster was caused by fog

On Friday, May 29, 1914, the RMS Empress of Ireland collided with the Norwegian collier Storstad and sunk to the floor of the St. Lawrence River near Rimouski, Que.

Innovation, Technologies and AI

Machine learning shines in **weather-forecasting study**

Innovate Long Island

... says highly accurate **weather** forecasts extending beyond two weeks are possible with the use of machine-learning **technologies**. Machine learning ...

Developing a new AI early warning system for flooding

EurekaAlert

... AI system that will be able to efficiently analyse and interpret streams of satellite imagery and other **data** in real time. ... said: "All of us are aware that **weather forecasting** has improved over the years and that we are now able to ...

Outdoor recreation

Avalanche Advisory is LIVE

In an unprecedented move, we have started the NZ Avalanche Advisory early. Never before have we had five forecast regions live in May, and all with HIGH danger. This is a very dynamic situation, things are changing, and the avalanche danger will evolve as we get more data, more observations, and as the weather changes. Check the advisory for the latest details.

Use Plan My Walk for latest weather updates

Did you know? Our Plan My Walk app includes all live DOC alerts for tracks, huts and campsites, as well as MetService weather warnings and forecasts. You can also easily assign an emergency contact and share your plan with them. Give it a go this weekend.

Transport/roading/shipping/freight

How supply chains contend with severe **weather** and climate disasters

Supply Chain Dive

The interconnected nature of **ports** leave assets such as warehouses, trucking networks and railroads vulnerable to disruptions from climate change ...

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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.

Satellite Senses Subtle Amazon Seasonality

NASA - June 1, 2021

An analysis of geostationary satellite data found a 10 to 15 percent increase in greening around the rainforest during the dry season.

Adapting to changing climates: Q&A with Eumetsat's Phil Evans

SpaceNews - May 27, 2021

Phil Evans, who became director general of Eumetsat in January, speaks with SpaceNews about how the intergovernmental organization is reassessing the traditional playbook for a new weather-tracking era.

Here's the Arctic Station That Keeps Satellites Connected

The New York Times - May 31, 2021

The world's northernmost tracking base, on a Norwegian island, plays a crucial role in supporting research on climate change.

How 5G May Improve Early Warnings of Severe Weather

The Wall Street Journal - May 25, 2021

In a small office across from a dry cleaner in Wake Forest, N.C., a team of engineers is exploring the possibility of using data found in 5G wireless signals to measure a key factor in the early detection of tornadoes.

Integrating Data to Find Links Between Environment and Health

Eos - May 26, 2021

Several obstacles stand in the way of integrating social, health, and Earth science data for vital geohealth studies, but there are tools and opportunities to overcome these obstacles.

A Meteorologist Offers 10 Tips For Kids Interested In Weather

Forbes - May 30, 2021

10 tips from a meteorology professional for kids interested in weather.

Researchers examine record-shattering 2020 trans-Atlantic dust storm

Phys.org - May 26, 2021

For two weeks in June 2020, a massive dust plume from Saharan Africa crept westward across the Atlantic, blanketing the Caribbean and Gulf Coast states in the U.S. The dust storm was so strong, it earned the nickname "Godzilla."

Newly discovered African 'climate seesaw' drove human evolution

ScienceDaily - May 31, 2021

A scientific consortium has found that ancient El Niño-like weather patterns were the primary drivers of environmental change in sub-Saharan Africa over the last 620 thousand years - the critical time-frame for the evolution of our species.

Derecho season is about to begin: Why you should be aware of these potentially devastating windstorms

The Washington Post - May 29, 2021

These violent thunderstorm complexes can be as destructive — and frequent — in the U.S. as landfalling hurricanes.

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