

New Zealand weather and climate news

Courtesy of **MetService Library**

(**MetService focus**)

Southern flooding costs blow out by \$10m

Stuff.co.nz

The same **weather** system dumped rain in Southland, the West Otago and the ... The Gore District Council said 18 **businesses** in Gore, Mataura and ...

120mm of rain expected for Northland as region prepares for another deluge

Stuff.co.nz

Northland and Auckland would both experience a deluge of rain on Tuesday, **MetService** meteorologist Stephen Glassey said. As well as the heavy ...

Auckland reservoirs reach 60 percent capacity

RNZ

Watercare's figures show that Aucklanders used 378 million litres of water yesterday, below the conservation target of 405 million litres a day. An ...

Weather: Northland, Auckland to be hit by heavy rain next week

Newshub

MetService warns of a "dramatic change in the weather" for the North Island next week as a low heads across the Tasman Sea. As the subtropical ...

Clouds over the Southern Ocean hold the key to better climate change predictions, study says

To the untrained eye they are just fluffy, white shapes in the sky, but a team of New Zealand scientists say clouds could hold the key to more accurate climate change predictions.

Spring-like spell bows out, weekend cold snap on way with snow and rain to come

Stuff.co.nz

Fresh southerlies moved into Invercargill on Friday afternoon, and **MetService** expects the front responsible to sweep up the country overnight and into ...

July brought a cold start followed by a mild month for Whanganui

New Zealand Herald

Metservice meteorologist Mmathapelo Makgabutlane said strong winds were also a feature of the early part of the month. "Wind speeds of 37km and ...

WMO

GRAPES regional NWP system updated to 3 km rapid circulation assimilation - China Meteorological Administration

Posted:

On June 25, GRAPES regional Numerical Weather Prediction (NWP) system independently developed by China Meteorological Administration (CMA) was updated to version 5.0, which has realized the 3 km...

Volcano alert/watch

Indonesia's Sinabung Volcano Erupts; **Airplane** Alert Issued

The Weather Channel

Sinabung is one of the 129 active volcanoes in Indonesia, a vast-archipelagic nation home to over 17,500 islands. The **Weather** Company's primary ...

Most active volcano in Iceland could soon erupt, experts say

The Weather Network

Grímsvötn's 2011 eruption affected international air travel and sent a plume of ash and steam about 20 kilometres into the atmosphere. Share.

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

Reduced international Antarctic season commences - Winston Peters, **Megan Woods**

Voxy

"Throughout the global pandemic, essential operations and long-term science have continued at Antarctic stations, including at **New Zealand's** Scott ...

Fibre-optic cable to Antarctica would be 'amazing for science'

Scientists have been relaying increasingly urgent warnings from Antarctica about the impact of climate change using communications technology that might have looked at home in the dial-up internet era.

Extreme weather (and other news) – Australia and Pacific

Liawenee in Tasmania's Central Highlands breaks record for coldest temperature in island state

If you thought it was cold this morning, spare a thought for Liawenee in Tasmania's Central Highlands — it is already one of the coldest places in Australia and has just broken its own record.

Snow 'another blow' as northern Tasmanian businesses face damage bills

The biggest snow dump in northern Tasmania since the early 1970s has left one business with a \$120,000 bill, while others are still counting the cost of the damage.

Floods strike Cook Islands' Rarotonga

About five Cook Islands families were driven from their homes by flooding this week, during a downpour that brought a month's worth of rain to Rarotonga.

Extreme weather (and other news) – Americas and Europe

Flash floods on Greek island kill seven including baby

Rescuers searching for missing person as dozens are evacuated after storms devastate central island of Evia.

International news and research

What spaghetti models do and don't tell us about a hurricane

University of Miami

The majority of data come from **weather satellites**. The very important job of data assimilation is to combine, quality-control, and optimize all of those ...

Heat wave 'Hugo?' New coalition seeks to name hot **weather** like hurricanes.

Washington Post

McLeod said the idea to name and rank heat waves originated from California's Climate **Insurance** Working Group, in which she participates, headed ...

Volcanic emissions can cause changes in the atmosphere over a long time

Phys.Org

In addition, the sea would react with **El Niño**-like mechanisms during the first three years; those will also shift southward. "Because the model ...

Atlantic hurricanes linked to weather system in East Asia

Posted: 07 Aug 2020 08:19 AM PDT

Climate researchers have found a link between hurricanes that form in the Atlantic Ocean - and threaten the United States - and a weather system in East Asia. A jet stream originating in East Asia carries an atmospheric wave to the Atlantic Ocean that affects wind shear - a key element in whether tropical storms develop.

Weather companies

Vento Maritime Joins MMT on US Offshore Wind Project

Offshore WIND

MMT US Inc. has awarded Vento Maritime with a contract for **MetOcean** forecasts and weather support at Equinor's Beacon Wind project offshore ...

Aviation

Unisphere and Meteomatics cooperate to increase safety and automation for **flight** operation of ...

sUAS News

Konstanz / St. Gallen, August 2020, – The **flight** management software company Unisphere, and **weather** data expert Meteomatics have signed a ...

Air New Zealand Introduces RNP On ATR Flights

<http://www.smartaviation-apac.com/>

But where the technology shines, is in its ability to allow **aircraft** to operate in bad **weather**, which is important because Queenstown is an all-year ...

Kāpiti Coast Airport could be closed, as owner says they're 'reviewing all options'

Kāpiti Coast Airport faces possible closure with its owners “reviewing all options”, and word leaking out that it could shut by next month.

'Huge bang' as lightning struck Q'town bound flight

A passenger on a plane struck by lightning has described the moment the bolt hit one of the engines as being like a car driving into a power pole.

"It was that loud - a real smash ... just this huge bang and lightning flicked past the cabin," Don Martin told the *Herald*.

AirlineRatings.com rates serious incidents in global first

Airline Ratings

In the process, incidents such as bird strikes, lightning and **weather** were eliminated along with issues that were not related to the **airline** or pilots.

Weather reporting tools for safe helicopter operations

Vertical Magazine

Such reports are essential for safe takeoffs and landings for both fixed-and rotary-wing **aircraft**. However, for smaller airports and heliports, the ...

Business/Insurance

Are You Watching For Storm Warnings As A Leader?

Forbes

Executive Vice President of Sales at NAVCO, leading the companies ... Her **weather-channel** app is her best friend, and she knows how to use it like a ...

Could climate become the weak link in your supply chain?

Much of global economic production is organized around a complex system of interdependent supply chains. Supply chains facilitate the production of everything from computers and cars to lifesaving medicines and food, and support world trade in goods that is worth almost \$20 trillion annually. End products have up to many thousands of parts, sourced from diverse geographies

around the world. Over time, these supply chains have been honed to deliver maximum efficiency and speed.

Communications/social media

Marquee Broadcasts Using ClimaCell Software to Show Weather's Real-Time Impact on Games

Cubs Insider

These **weather graphics** are even more interesting and informative because they're quantifying aspects of the game we could only guess at previously ...

Energy and Mining

Japan offshore wind: The ideal moment to build a vibrant industry

As construction starts on Japan's first large commercial offshore wind farm in the coastal waters of Akita, the country is heralding a future of energy independence.

History

June Bacon-Bercey: Pioneering Meteorologist and Passionate Supporter of Science

Bacon-Bercey redefined the role of the television meteorologist, blazing trails for African Americans and endowing an AGU scholarship for women studying atmospheric science.

Innovation and technologies and AI

Application of machine learning can optimize hurricane track forecast

Phys.Org

Researchers say a machine learning technique could help **meteorologists** provide more accurate medium-term forecasts and issue timely warnings to ...

Cloud high-performance computing could help the US build the best **weather predictor**

SiliconANGLE

The National **Weather** Service is striving, with help from partners inside and outside of the **technology** sector, to develop the best predictive **tech** in the ...

NZ's moves towards becoming a tech hub

Auckland has won the right to host the International Privacy, Security and Trust Conference at the end of next year – so as well as basking in the spotlight of hosting the women's cricket and rugby world cups, the city will also be the centre of the tech world's attention.

Outdoor recreation / sporting events

Avalanche alerts put out for parts of the country

People planning to venture into the backcountry are urged to take care after overnight snowfall in the South Island.

Satellites and radar

China plans to launch 2 more meteorological satellites in 2021

Xinhua

It will be the fifth member of the country's Fengyun-3 series of satellites in polar orbit and the world's first **meteorological satellite** in dawn-dusk orbit.

Transport/roading/shipping/freight

Innovation, Energy Generation and Communication Ahead for Transportation Infrastructure

ForConstructionPros.com

This “nano-concrete” that is used to pave roads could be glass-like materials that are more resilient to **weather**, climate change and wear and tear.

ABPmer assesses WindFloat impacts for Erebus floater

reNES

“We are expertly placed to deliver this element of the EIA, having provided physical processes and **metocean** support to over 35 other offshore wind ...

Journal and articles online

Texture-based classification of high-resolution precipitation forecasts with machine-learning methods

Yamina Hamidi, Laure Raynaud, Lucie Rottner, Philippe Arbogast

Version of Record online: 27 July 2020

Rainfall texture classification result obtained with a random forest model trained on raw image pixels. The two characterized rainfall textures, continuous and intermittent rainfall, are overlaid in black and light grey, respectively, on top of the analysed field (1-hr precipitation forecast from the French Arome model). This texture labelling matches perfectly the one given by an expert.

=====

Weather Eye with John Maunder

<https://www.sunlive.co.nz/blogs/14944-tauranga-average-july-afternoon-temperatures-19132020.html>

<https://www.sunlive.co.nz/blogs/14926-tauranga-july-rainfalls-18982020.html>

=====

Thanks to our regular contributors