

## **New Zealand weather and climate news**

### **Courtesy of MetService Library**

#### **MetService mentions**

#### **How summery was Wellington's summer? Pretty average**

Stuff.co.nz

According to MetService, the Kelburn weather station recorded a maximum temperature of 24.8degC on February 7, and an average wind speed of ...

#### **South Canterbury summer average despite extreme weather events**

Summer presented some weather extremes across South Canterbury, while statistics show close to average rainfall and temperatures compared to historical data.

#### **Sticky nights and thunderstorms: North Island in for muggy weather and storm risk all week**

New Zealand Herald

**MetService** meteorologist Tom Adams said warm air was being dragged down from the tropics seeing scorching temperatures in eastern parts of the ...

#### **Weather: 'Uncomfortable' humidity creating perfect conditions for afternoon, evening thunderstorms**

Stuff.co.nz

MetService is forecasting a moderate risk of thunderstorms Tuesday afternoon and evening for eastern Northland, the Hauraki Gulf, Coromandel ...

#### **Severe thunderstorm watch for north, including Auckland; chance of flooding, hazardous driving ...**

Stuff.co.nz

At lunchtime on Wednesday, **MetService** issued a severe thunderstorm watch for Northland, Auckland, Coromandel Peninsula and far northern parts ...

#### **A turbulent start to autumn being forecast**

SunLive

The MetService is forecasting a turbulent start to autumn this month. On average, the waters around Aotearoa are warmer in the first month of autumn ...

### **Downpour sparks emergency callouts in Richmond**

Stuff.co.nz

Fire and Emergency New Zealand (FENZ) said it had three calls from people living on Queen St, Hill St and Churchill Ave on Tuesday morning who ...

### **MetOcean (and oceanmet, marine weather etc)**

### **New model describes wave behavior in straits, predicts killer waves**

A Skoltech researcher has developed a theoretical model of wave formation in straits and channels that accounts for nonlinear effects in the presence of a coastline. This research can improve wave prediction, making maritime travel safer and protecting coastline infrastructure. The paper was published in the journal Ocean Dynamics.

### **NIWA**

### **Always Take The Weather With You**

Scoop.co.nz

People need robust and accurate data to make informed decisions about venturing into the outdoors. ... The upgrade to DOC's weather forecasting service provided by NIWA, will ensure that we have the best information available to ...

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

### **Townsville's Bureau of Meteorology weather radar goes offline during Cyclone Season**

North Queensland Register

"Radars are not the only source when the Bureau tracks and forecasts cyclones. "Given the impact of severe **weather in** North Queensland and the value ...

### **BOM warns Tropical Cyclone Niran expected to intensify as it tracks away from coast**

Tropical Cyclone Niran is expected to intensify into a category three storm within the next 24 hours, bringing gales to coastal and island communities.

### **La Niña drives cooler temperatures, high rainfall during Australian summer**

Australia recorded its wettest summer in half a decade and its coolest in nine years as La Niña snapped an eight-year hot streak in 2020-21.

### **Ningaloo Nino: The climate phenomenon worrying scientists**

NEWS.com.au

The Bureau of Meteorology tells us we're in a La Nina year. But what does that mean? How is it different from **El Nino**?

### **International news and research**

### **Rocket launches reveal water vapor effect in upper atmosphere**

Posted: 01 Mar 2021 06:11 AM PST

Results of a 2018 multirocket launch will help scientists better understand the impact of more water vapor accumulating near the fringe of the Earth's atmosphere.

### **On calm days, sunlight warms the ocean surface and drives turbulence**

Posted: 01 Mar 2021 12:15 PM PST

In tropical oceans, a combination of sunlight and weak winds drives up surface temperatures in the afternoon, increasing atmospheric turbulence, unprecedented new observational data shows.

### **Satellites, airplanes and lasers are tracking Colorado avalanches**

The Colorado Sun

Avalanche forecasting has come a long way since the 1950s, when forecasters relied solely on **weather** to predict when and where snow might slide.

### **Rating tornado warnings charts a path to improve forecasts**

Posted: 02 Mar 2021 12:01 PM PST

A new method to rate tornado warnings shows that nighttime tornadoes in the U.S. have a lower probability of detection and a higher false-alarm rate than other events. Summertime tornadoes, occurring in June, July or August, also are more likely to evade warning.

## **Aviation**

### **ICAO Council makes progress on new remotely piloted aircraft system (RPAS) standards**

Montréal, 1 March 2021 – During its ongoing 222nd Session, the ICAO Council today adopted new and amended Standards and Recommended Practices (SARPs) driving important progress on the international safety and interoperability of remotely piloted aircraft systems (RPAS).

## **Health**

### **Health risks to babies on the front line of climate change**

Posted: 01 Mar 2021 08:24 AM PST

**Extreme rainfall associated with climate change is causing harm to babies in some of the most forgotten places on the planet setting in motion a chain of disadvantage down the generations, according to new research. Researchers found babies born to mothers exposed to extreme rainfall shocks, were smaller due to restricted fetal growth and premature birth.**

## **Marketing**

### **5 Most Successful Video Marketing Tactics Brands Are Using to Grab Eyeballs and Convert Customers**

Successful brands are engaging with their audiences on social media using video marketing and other digital marketing techniques.

## **Satellites and radar**

## Russia launches first Arktika-M weather satellite

Pressenza, International Press Agency

Russia on Sunday launched the first **weather satellite** from the Baikonur cosmodrome, in Kazakhstan, the Russian Federal Space Agency, Roscosmos ...

## Space weather

'Space hurricane' observed above the North Pole

BBC Focus Magazine

The space hurricane, observed by **satellites** in the Earth's upper ... These events would be expected to lead to important space **weather** effects and ...

Proving existence of space hurricanes 'is incredible', says scientist - Belfast Telegraph\

## Transport/roading/shipping/freight

### Radar detects dangerous waves

01 Mar 2021 by Martyn Wingrove

Specialist radar processing can identify potentially hazardous waves, enabling navigators to steer container ships clear of danger

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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.

### Russia launches satellite to monitor climate in Arctic

CNN - February 28, 2021

Russia launched its space satellite Arktika-M on Sunday on a mission to monitor the climate and environment in the Arctic amid a push by the Kremlin to expand the country's activities in the region.

On calm days, sunlight warms the ocean surface and drives turbulence

ScienceDaily - March 1, 2021

In tropical oceans, a combination of sunlight and weak winds drives up surface temperatures in the afternoon, increasing atmospheric turbulence, unprecedented new observational data shows.

Satellites, airplanes and lasers are tracking Colorado avalanches

The Colorado Sun - March 1, 2021

Eye-in-the-sky technology is bringing avalanche science into the 21st century, enabling forecasters with better tools for predicting threats in Colorado's backcountry.

Future hurricane seasons might start two weeks early

The Verge - March 1, 2021

The National Hurricane Center already plans to issue forecasts earlier in the year.

Using deep-sea fiber optic cables to detect earthquakes

Phys.org - February 26, 2021

Seismologists at Caltech working with optics experts at Google have developed a method to use existing underwater telecommunication cables to detect earthquakes. The technique could lead to improved earthquake and tsunami warning systems around the world.

Fleets of radar satellites are measuring movements on Earth like never before

Science Magazine - February 25, 2021

East Africa has been called the cradle of humanity. But the geologically active region has also given birth to dozens of volcanoes.

Advances in Satellite Data for Wildfire Smoke Forecasting

Eos - February 26, 2021

Observations from the newest geostationary Earth-observing satellites are offering valuable views of fire progression and smoke plume development and helping simulate impacts from large wildfires.

DoD focus on climate could shape future investments in weather satellites

SpaceNews - February 24, 2021

The Space Force is considering future investments to improve weather monitoring in the Arctic.

The 2021 tornado season may be more destructive because of La Niña. Here's the forecast.

USA Today - February 23, 2021

AccuWeather meteorologists said that because of La Niña, severe weather and tornado activity could abruptly fire up and rival 2011, one of the most notorious severe weather seasons, when tornadoes killed more than 550 Americans.

Do Extreme Weather Events Change Climate Policy?

The MIT Press Reader - February 26, 2021

Political scientist Lauri Peterson shares findings from a unique study that examined the relationship between extreme weather events and climate action in democracies.

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Weather Eye with John Maunder

<https://www.sunlive.co.nz/blogs/15403-tauranga-february-average-afternoon-temperatures-19132021.html>

John is on from 65 minute to about 125 minute of the 3 hour session link here (Magic Morning talk Radio last Tuesday).

NOTE he admits these views are held by only around 5% of climatologists .....

<https://www.magic.co.nz/home/shows/talk/magic-mornings.html>

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Cyclone Yasa damage to Yaro village. Kia Island, Vanua Levu's north Coast, Fiji, during Christmas 2020,

see

<https://www.facebook.com/seamercysouthpacific/posts/4006432292742858>

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