

New Zealand weather and climate news

Courtesy of MetService library

MetService mentions

Live Canterbury flooding updates: Bridges collapse, hundreds of homes evacuated

At least 300 homes in Canterbury have been evacuated and more could be at risk as in widespread flooding that left the entire region in a state of emergency.

Watch: Canterbury conditions to get worse before they get better - MetService

Newshub

MetService meteorologist Angus Hines says red warnings are "only issued for the most extreme weather systems which cause widespread disruption ...

Canterbury flooding: What's causing the huge amounts of heavy rain?

Canterbury is being hit by an extremely significant rain event. Keith Lynch spoke to MetService meteorologist Alwyn Bakker to explain just why it's so bad.

Canterbury flooding in pictures: Heavy rain and rising floodwaters hit hard

Heavy downfalls from Canterbury's 'Code Red' storm sees flood waters rise, cutting power, threatening lives and property in Christchurch and beyond.

'Act now': MetService's red warning predicts most significant rainfall in a decade for Canterbury

Stuff.co.nz

Red warnings are reserved for only the most extreme **weather** events, and ... services," MetService communications **meteorologist Lisa Murray** said.

'Act now': MetService's red warning predicts most significant rainfall in a decade for Canterbury

Stuff.co.nz

MetService's heavy rain severe weather red warning covers Canterbury south of Amberley from 3pm Saturday to 11am Monday. Up to 300mm could fall ...

Canterbury region to face most significant rainfall in 10 years

Newshub

MetService has issued a severe weather warning for Canterbury for the weekend, with 200 to 300mm of rain forecast for the high country, and 80 to ...

Storm surges, flooding and king tides in the BOP

SunLive

The **MetService** is forecasting the most significant rainfall in 10-years to fall in the Canterbury region, and Waka Kotahi NZ Transport Agency advising ...

Heavy swells to ease from today

Gisborne Herald

The **MetService** swell advisory yesterday pointed to waves of 3.5 to 4 metres south of Tolaga Bay but up to 4.5-5m in the north. "For Friday, the swell is ...

Snowfall modelling shows scary future

A shortened snow season, less snow and a much greater dependence on artificial snowmaking will be the new normal for South Island skifields by the end of this century.

MetOcean

US Wind deploys metocean buoy

reNEWS

Offshore wind developer US Wind has deployed a **metocean** buoy within the Maryland lease area to collect critical atmospheric, weather and marine ...

NIWA

Wild weather explained: The science of the Canterbury storm causing havoc

Niwa forecaster Seth Carrier said the atmospheric set-up behind the storm came with several notable and unusual features.

The main reason the rainfall was so intense was that the low-pressure system driving it, and currently centred off the coast of the North Island, was tapping into moisture in the subtropics, and even the tropics, via a 4000km-long "atmospheric river".

WMO

New climate predictions increase likelihood of temporarily reaching 1.5 °C in next 5 years

Posted:

Geneva, 27 May 2021 (WMO) - There is about a 40% chance of the annual average global temperature temporarily reaching 1.5°C above the pre-industrial level in at least one of the next five years – and...

Space observations support sustainable development

Posted:

Space-based observations are key to achieving the international agenda on sustainable development, disaster risk reduction and climate change and it is thus imperative to ensure there is a stable and...

Others

The wine industry's go-to weather guy because he sent facts instead of a fax

When Rob Agnew was at Blenheim School in the 1960s, his favourite thing about chilly winter mornings was riding his bike over frozen puddles to smash the ice.

More than five decades later, he still rides his bike through Blenheim most mornings, on his way to work where he gets paid to watch the weather

Severe weather update with Philip Duncan

It's going to be a weekend of wet and wild weather in Canterbury, with MetService issuing a rare Red severe warning -- which are reserved for the most significant weather events. Philip Duncan is Head Weather Analyst and owner of WeatherWatch.co.nz. He joins the show for an update on what's happening in southern and central Canterbury and what people can expect from here on in.

Volcano alert/watch

Evacuating Auckland When A Volcano Threatens Eruption - Expert Reaction

Scientists have modelled how long it could take people to safely evacuate Auckland with advance warning of a volcano eruption.

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

Large and powerful waves will continue to lash the NSW coast

9News

A wave rider buoy located near Coffs Harbour registered maximum wave heights over 10 metres last night, according to **Weatherzone**. Another buoy ...

International news and research

Making a Model: European meteorologists strive to make accurate storm predictions

WSVN 7News | Miami News, Weather, Sports | Fort Lauderdale

Vivian Gonzalez 7Weather **meteorologist**: “Now I want to show you the forecast models.” Among all the models in this spaghetti chart, one is produced ...

All together now: the most trustworthy covid-19 model is an ensemble

MIT Technology Review

Prior to ensembles, **weather forecasting** used a single numerical model, ... a focus on the “**techno-social**” systems that drive feedback mechanisms.

Growing Vegetables in Extreme Conditions: Panasonic Technology Underpins a New Model for ...

marketscreener.com

Climate change is set to worsen extreme **weather**, causing an increase in severity and frequency. The Asian Monsoon Plant Factory System (PFS) ...

Why hurricanes devastate some places over and over again: A meteorologist explains

Phys.Org

Twenty-five years of Atlantic tropical storm tracks, ranging from tropical depressions in dark blue to hurricanes in yellows and reds. Credit: Nilfanion.

Tetsuya Fujita: The fascinating life of Mr. Tornado

Spectrum News

His research led to the development of mesoscale **meteorology**. ... **Meteorologists** used this scale for 35 years, and the development of the Fujita scale ...

Crowdsourced air temperatures contrast **satellite measures of the urban heat island and its ...**

Science Advances

Using crowdsourced citizen **weather** stations (>50,000) and **satellite** data over Europe, we estimate the CUHI and SUHI intensity in 342 urban clusters ...

Warm ice may fracture differently than cold ice

Posted: 26 May 2021 08:55 AM PDT

Researchers have found strong evidence that warm ice - that is, ice very close in temperature to zero degrees Celsius - may fracture differently than the kinds of ice typically studied in laboratories or nature. A new study takes a closer look at the phenomenon.

Record-shattering 2020 trans-Atlantic dust storm

Posted: 26 May 2021 08:55 AM PDT

Researchers parsing the mechanism that in June 2020 transported a massive dust plume from Saharan Africa to the Caribbean and U.S. Gulf Coast.

Business/Insurance

Big funding boost propels Dawn Aerospace to new heights

Stuff.co.nz

Customers for the Mk-II service are expected to include **weather** agencies, government entities and startups. The **company** said the next vehicle in the ...

Farm incomes fall by 20% in a year due to weather, Covid and Brexit

The Guardian

But many fear that the payments will spur further consolidation in UK farming, squeezing out small farmers in favour of huge intensive agri-**businesses** ...

Energy and Mining

Boaties and generators powerless in face of forecast as Lake Taupō hits low

Stuff.co.nz

Written evidence, following **Watercare's** initial submissions, is due from the regional council by June 4, with written copies of further oral submissions ...

Local energy companies using new technologies to prevent unnecessary power outages

ABC Action News

Power outages are often one of the biggest headaches when it comes to storm season, whether during a hurricane, or severe **weather** in general.

Satellites and radar

Tomorrow's Forecaster Taking Shape

AviationPros.com

The MetOp-SG **satellite** fleet consists of six **satellites** and will secure the continuation of **meteorological** observations from a polar orbit in the ...

Transport/roading/shipping/freight

Driving in the snow is a team effort for AI sensors

Posted: 27 May 2021 02:25 PM PDT

A major challenge for fully autonomous vehicles is navigating bad weather. Snow especially confounds crucial sensor data that helps a vehicle gauge depth, find obstacles and keep on the correct side of the yellow line, assuming it is visible. Averaging more than 200 inches of snow every winter, Michigan's Keweenaw Peninsula is the perfect place to push autonomous vehicle tech to its limits.

Water

House leader questions panel approval of 25-year franchise for Manila Water, Maynilad

INQUIRER.net

... which approved a 25-year legislative franchise for Manila Water Company Inc. and **Maynilad Water Services Inc.** Bagong Henerasyon party-list Rep.

Maynilad to go public as part of new concession deal

BusinessWorld Online

Maynilad Water Services Inc., the water supplier for Metro Manila's west zone, has agreed to go public, as part of its revised concession deal with the ...

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WeatherEye with John Maunder

<https://www.sunlive.co.nz/blogs/15697-fifteen-shades-of-climate-fall-of-weather-dice-and-butterfly-effect.html>

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