

New Zealand weather and climate news

Courtesy of **MetService Library**

MetService mentions

[Weekend weather warm, wet and muggy](#)

SunLive

MetService meteorologist Mmathapelo Makgabutlane says the western South Island gets the heaviest rain, where a Severe Weather Warning has ...

[Muggy conditions remain for upper North Island](#)

SunLive

MetService is forecasting the cold front that caused Christchurch's 2pm temperature to drop from 28C to 12C from Sunday to Monday, to stall over the ...

[Hot, dry La Nina summer](#)

Get your SPF-50 lotion ready — here comes the sun.

National Institute of Water and Atmospheric Research (Niwa) has officially confirmed the arrival of La Nina conditions, which means we are in for another record-breaking hot, dry summer in Otago and Southland.

[Halloween: MetService's forecast is handy in an unusual way](#)

Stuff.co.nz

Halloween apparently came as a surprise to MetService this year. In the forecast video Hines informs viewers that they didn't have a chance to prepare

[Auckland drought: Summer confidence high despite dam levels below target](#)

Stuff.co.nz

Auckland's Watercare is confident the city's drought-hit water supply will cope with a dry summer, despite storage lakes falling below a monthly target.

[MetOcean](#)

[Marine heatwaves, higher tropical cyclone risk: What La Niña means for New Zealand this summer](#)

RNZ

MetOcean Solutions senior oceanographer Dr Joao de Souza, said in a statement from the organisation earlier in spring that typically, the stronger north- ...

WMO

[La Niña has developed](#)

La Niña has developed and is expected to last into next year, affecting temperatures, precipitation and storm patterns in many parts of the world, according to the World Meteorological Organization...

[WMO and IATA agree to improve aircraft meteorological reporting](#)

Posted:

The International Air Transport Association (IATA) and World Meteorological Organization have signed an agreement to increase and improve the automated reporting of meteorological data by commercial...

[Extreme weather \(and other news\) – Antarctica and offshore](#)

[Ice loss likely to continue in Antarctica, even if climate change is brought under control, study finds](#)

Posted: 22 Oct 2020 05:33 AM PDT

A new study has revealed that ice loss in Antarctica persisted for many centuries after it was initiated and is expected to continue.

[Extreme weather \(and other news\) – Asia and the Middle East, Africa](#)

[Super Typhoon Goni intensifies to category 5 in the Pacific, becoming strongest storm of 2020](#)

Though the storm is expected to weaken ahead of landfall in the Philippines, it's still likely to cause a major disaster.

[Super Typhoon Goni Kills 10 in the Philippines](#)

The Weather Channel

The Philippine weather agency reinforced those concerns, saying that ... Monday, and airlines canceled dozens of international and domestic flights.

[Rolly and Siony: Filipinos told to brace for 2 consecutive cyclones in coming days](#)

Philippine Star

State meteorologists are also monitoring a tropical storm located outside PAR ... over the next three days, based on the available meteorological data.

[Extreme weather \(and other news\) – Americas and Europe](#)

[WATCH: Viewers stunned as TG4 weather presenter struck by lightning live on air](#)

Lovin.ie

Wishing Caitlín Nic Aoidh a full recovery. The **TG4 weather** presenter is the subject of much concern on social media today after she was 'struck by ...

[Most of Europe faces mild winter – forecaster](#)

Montel

... with only some regions to experience a cooler December, The **Weather Company** said. There were few indications of a period of low temperatures, ...

International news and research

[International team tracks record-setting smoke cloud from Australian wildfires](#)

Posted: 29 Oct 2020 05:22 AM PDT

Researchers have found that the smoke cloud pushed into the stratosphere by last winter's Australian wildfires was three times larger than anything previously recorded.

[NASA to launch new **satellite** to enhance data for **weather** models, hurricane forecasting](#)

WJTV

DENVER (KDVR) — NASA will launch a new **satellite** that will help with hurricane forecasting and enhance data for **weather** models. On Nov. 10, the ...

[New dataset provides county-level exposure numbers for tropical cyclones, human health](#)

Posted: 28 Oct 2020 09:45 AM PDT

The new open source data set can be used for epidemiological research on tropical cyclones.

Aviation

[Agreement to improve **aircraft weather** reporting](#)

Airlines International

The new initiative, called the WMO and IATA Collaborative AMDAR Programme (WICAP), aims to expand the existing WMO **Aircraft Meteorological** ...

Climate change / global warming

[Looking to nature to design climate-resilient cities](#)

Aotearoa New Zealand and other Pacific Islands are at the forefront of climate change impacts affecting ecosystems and human wellbeing, so how do we adapt our cities to be more resilient and more liveable? Dr Maibritt Pedersen Zari is leading an interdisciplinary team of researchers developing an Oceania-specific form of urban design that explores how Indigenous knowledge can better prepare us for the future.

Communications/social media

[Talkback — the way we talk about the weather](#)

After already experiencing raging bushfires, scorching temperatures and drought, parts of Queensland and New South Wales experienced widespread flooding in February 2020.

As extreme weather events become more frequent, how has our language, and the way we talk about the weather, begun to change?

El Nino / La Nina

[After Nearly A Decade Away, La Niña Weather System Is Back...](#)

Many will be familiar with El Nio the ocean-warming phenomenon that affects global weather patterns but how about La Nia, which is linked to cooler sea temperatures? According to the World Meteorological Organization (WMO), La Nia ...

Health

[Thunderstorm asthma season is on now. Are we ready for another event if it happens during COVID-19?](#)

Michelle Griffiths remembers November 21, 2016 well.

It had been a windy, warm day in Melbourne, so that evening she and her husband opened up the big glass doors off their lounge room to air their house after the warmth of the day.

Lightning

[Influence of tilting effect on charge structure and lightning flash density in two different convective environments](#)

Maryam Gharaylou, Nafiseh Pegahfar, Majid M. Farahani

e1957 | First Published: 08 October 2020

Time series of the simulated lightning flash density of (a) the real case study and (b) an idealized sounding for no shear and with shear simulations.

No Shear (NS) and With Shear (WS) simulations have been conducted using the idealized WRF-ELEC simulations for two thunderclouds based on different values of wind velocity components in input sounding. Results show that considering the tilting effect results in the increase of the total non-inductive charging, especially in the severe thundercloud. Moreover, the tilting effect does not lead to the same results for the polarity and intensity of charge density in the two studied cases. Also, considering the tilting effect leads to the increase of the number of lightning occurrences of the two case studies.

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Thanks to MetService Library