

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

### **Thanks to MetService Library**

#### **MetService mentions**

#### **Smashing time as stormy wind wreaks havoc**

A blustery weekend for the South resulted in widespread power outages, keeping fire and power crews busy.

Winds gusted up to 130kmh in parts of the South and trees fell on power lines, roofs lifted off houses and trampolines were blown away.

#### **High winds knock out power in Southland**

RNZ

Meanwhile, MetService has warned west to southwest gusts could reach 120kmh at times for Dunedin and could get up to 130kmh in exposed parts of ...

#### **Strong winds cause caravan to tip in Otago**

New Zealand Herald

A Fire and Emergency New Zealand spokeswoman said a vehicle and caravan, which had tipped over onto its side, were blocking both lanes of the ...

#### **Community ready for a 'rock n' roll day' as big waves hit southern coast**

Wellington's South Coast has so-far been spared any damage by large waves hitting the shoreline on Sunday.

Crunch times was expected at 11.44am when a high tide combined with the 4 to 4.5-metre waves.

#### **Big waves heading towards Wellington on Sunday**

Stuff.co.nz

MetService said the big waves were going past Christchurch at 6.45am on Sunday and were expected in Wellington about 8am. It issued a heavy ...

#### **Wellington records gloomiest November on record**

Wellington's on track to experience the gloomiest November on record, according to meteorologists.

MetService recorded just 67 hours of sunshine in the suburb of Kelburn this month.

### **Watch: Thunderstorm rattles Hawke's Bay**

New Zealand Herald

Both Napier and Hastings experienced the storm, which blew out to sea about 6.45pm, as per MetService predictions. Surface flooding was reported ...

### **MetOcean**

### **Another marine heatwave forecast**

Another marine heatwave is forming around parts of New Zealand after sea surface temperatures warmed considerably last month, Niwa forecasters say.

### **Plans to map the entire ocean floor by 2030 are off to a great start**

Euronews

This includes ocean circulation, **weather** systems, sea level rise, tsunami wave propagation, tides, sediment transport and, of course, **climate** change.

### **WMO**

### **Arctic Climate Forum expects above normal winter temperatures**

Posted:

Above normal temperatures and precipitation are expected across most of the Arctic region for November-January 2020/2021, according to a new seasonal climate outlook produced at the sixth session of...

### **International news and research**

### **The forgotten glaciers of Te Ika-a-Maui**

Glaciers are iconic symbols of New Zealand's landscape. While the glaciers of the Southern Alps are the most numerous and famous, several glaciers remain in the North Island and are no less affected by our changing climate.

### **More children and youth drowning as warming temperatures create unstable lake ice**

Posted: 18 Nov 2020 11:18 AM PST

As winters become milder and lake ice less stable, more children and young adults are falling through the ice and fatally drowning, say researchers. A new study, which looked at 4,000 drownings in 10 countries, including Canada, Russia, Finland, Germany, Sweden, and the United States, found warming winter air temperatures were a good predictor of the number of drownings.

### **Polar climate affects trade wind strength in tropics**

Posted: 20 Nov 2020 11:21 AM PST

The impact of sea surface temperature variations in the tropical Pacific on global climate has long been recognized. For instance, the episodic warming of the tropical Pacific during El Niño events causes melt of sea ice in far-reaching parts of the Southern Ocean via its effect on the global atmospheric circulation. A new study demonstrates that the opposite pathway exists as well.

### **"The Hardest Thing We Do": Why Forecasting Snow Is So Difficult**

Spectrum News

"I would say that for most meteorologists, forecasting snowfall amounts is the hardest thing we do," said Spectrum News Chief Meteorologist J.D. Rudd, ...

### **Think Anyone Can Do the Weather on TV? Think Again!**

Spectrum News 1

What You Need To Know. The Certified Broadcast Meteorologist seal is the gold standard; It requires a meteorology degree, testing, and peer review

### **Volcanic eruptions have more effect in summer**

Phys.Org

Detailed modeling of the effect of volcanic eruptions on the El Niño Southern Oscillation (ENSO) has shown that the climate response to these events ...

## **Climate change / global warming**

### **Agriculture and fairness: why climate chief is optimistic**

Climate Change Commission chair Rod Carr sat down with Newsroom senior political reporter Marc Daalder to discuss the role of the Commission in New Zealand's political life, what doing our fair share looks like and why he is optimistic about our chances against climate change

## **Communications/social media**

### **Five rules for evidence communication**

Avoid unwarranted certainty, neat narratives and partisan presentation; strive to inform, not persuade.

## **Emergency services / preparation**

### **More Fenz roles across South**

Otago Daily Times

Nearly 30 new roles will be established across the South as part of a nationwide Fire and Emergency New Zealand restructure. Fenz announced ...

## **Energy and Mining**

### **Tesco to co-create three UK solar farms**

The supermarket giant will work with investors Low Carbon to create solar farms in Essex, Anglesey and Oxfordshire. The solar farms will generate up to 130GWh of energy annually. It will help Tesco procure more renewable energy to power its facilities with additional energy also fed into the grid.

## **Hydrology / Flooding**

Bevacqua, E., Vousdoukas, M.I., Zappa, G. *et al.* **More meteorological events that drive compound coastal flooding are projected under climate change.** *Commun Earth Environ* **1**, 47 (2020). <https://doi.org/10.1038/s43247-020-00044-z>

Compound flooding arises from storms causing concurrent extreme meteorological tides (that is the superposition of storm surge and waves) and precipitation. This flooding can severely affect densely populated low-lying coastal areas. Here, combining output from climate and ocean models, we analyse the concurrence probability of the meteorological conditions driving compound flooding. We show that, under a high emissions scenario, the concurrence probability would increase globally by more than 25% by 2100 compared to present. In latitudes above 40° north, compound flooding could become more than 2.5 times as frequent, in contrast to parts of the subtropics where it would weaken. Changes in extreme precipitation and meteorological tides account for most (77% and 20%, respectively) of the projected change in concurrence probability. The evolution of the dependence between precipitation and meteorological tide dominates the uncertainty in the projections. Our results indicate that not accounting for these effects in adaptation planning could leave coastal communities insufficiently protected against flooding.

## **Lightning**

### **Five people injured by single lightning strike in Australia's Hunter Valley**

New Zealand Herald

Five people have been treated by paramedics after a lightning strike in Australia's Hunter Valley region. An Ambulance NSW spokesman said the bolt ...

## **Outdoor recreation**

### **Tourist died of hypothermia while tramping to Angelus Hut in Nelson Lakes**

A lack of suitable equipment and poor decision-making led to a man dying from hypothermia while tramping in the Nelson Lakes, a coroner has found.

## **Transport/roading/shipping/freight**

**Elcome Expands Range Of Services To Maritime Industry With Navimeteo Weather Forecasting**

Hellenic Shipping News Worldwide

The service includes route planning, port forecasts, weather warnings and vessel monitoring. The company's professional meteorology experts are ...

**Inmarsat adds another partner to Fleet Data IoT platform**

Riviera Maritime Media

It preprocesses that data on the vessel and uploads it to a central cloud-based ... Shipping companies can optimise voyages using **marine weather** ...

**Upgraded radar can enable self-driving cars to see clearly no matter the weather**

Posted: 17 Nov 2020 04:26 PM PST

A new kind of radar could make it possible for self-driving cars to navigate safely in bad weather. Electrical engineers developed a clever way to improve the imaging capability of existing radar sensors so that they accurately predict the shape and size of objects in the scene. The system worked well when tested at night and in foggy conditions.

**Journal and articles online**

**The numerous approaches to tracking extratropical cyclones and the challenges they present**

Erin Walker, Daniel Mitchell, William Seviour

Pages: 336-341 | First Published: 20 November 2020

The paths taken by extratropical cyclones are key in determining their impacts. However, there is not one single approach or definition of how to locate and track a cyclone. Having multiple methods to track cyclones produces large variations in results, sometimes with contradicting conclusions. For that reason, there is a need to compare storm-tracking methods to understand further the differences in cyclone trends and their associated impacts.

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