

## New Zealand weather and climate news

Courtesy of MetService Library

### MetService mentions

#### Strong winds blowing Australia bushfire smoke across the Tasman

Stuff.co.nz

MetService meteorologist Lewis Ferris observed satellite imagery showing northwest winds blowing the smoke haze over, but it was too early to say

#### MetService upgrades wind warning for South

Otago Daily Times

MetService is warning the South as strong winds are predicted to hit the region as a front approaches the South Island, bringing severe gales to much

#### Weather: Thunderstorm threat looms across much of New Zealand

Newshub

If they do happen, MetService says they will come with brief heavy rain and small hail. In the north of the North Island, there is a moderate risk of a few ...

#### Heat builds to mid-30s by weekend, chance of downpours in some drought-hit areas

Stuff.co.nz

In parts of the east of North Island, MetService is expecting daytime highs to top 30C each day for the next week. Hastings, for example, is forecast to ...

#### The heat is on

Gisborne Herald

The MetService forecast for today was “cloudy periods, a few showers ... However, MetService meteorologist Tom Adams said Gisborne could expect ...

#### It is Mission treble time and the heat is on

New Zealand Herald

Metservice warns concert-goers will be revelling in "dangerous" UV readings during this weekend's big acts Michael Buble and Fat Freddy's Drop.

#### What will Auckland's 2050 climate feel like?

By 2050 climate change could heat up Auckland's average temperatures to those of Buenos Aires' today, a newly published index suggests.

### **MetOcean**

#### Marine heat wave linked with spike in whale entanglements

Climate change is increasing the frequency and severity of marine heat waves -- warm water anomalies that disrupt marine ecosystems -- and this is creating new challenges for fisheries management and ocean conservation. A new study shows how the record-breaking marine heat wave of 2014 to 2016 caused changes along the US West Coast that led to an unprecedented spike in the numbers of whales that became entangled in fishing gear.

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

#### ADB to provide \$US3 million to Tuvalu for cyclone recovery

The Asian Development Bank will provide a \$US3 million grant to Tuvalu to assist with its recovery from Cyclone Tino.

#### Rain record broken near Townsville as a monsoonal low tracks across Queensland's north-west

Torrential rain in north Queensland has smashed a record as a tropical low in the Gulf Country brings heavy rain to northern and western parts of Queensland as it slowly moves towards the Northern Territory.

#### Heatwave forecast to span Australia according to Bureau of Meteorology

Brace yourselves Australia: there is yet another heatwave on the way. If you were beginning to think this summer was over, think again.

### **Extreme weather (and other news) – Americas and Europe**

#### Climate Change Report Highlights Risks to UK Ports

The Maritime Executive

Climate Change Report Highlights Risks to U.K. Ports ... operations could occur, especially in ports, which are potentially sensitive to weather-related ...

International news and research

What is a 'Pineapple Express'?

The Weather Network

Monday, January 27th 2020, 7:30 pm - It's one of Canada's familiar winter weather terms -- but what is a Pineapple Express?

Driving in heatwaves: Why the temperature on your car dashboard is different to BOM

Most Australians know the feeling of opening the car door after it has been parked in the sun on a hot day, and the rush of heat that smacks you in the face.

More rain and less snow means increased flood risk

By analyzing more than two decades of data in the western US, scientists have shown that flood sizes increase exponentially as a higher fraction of precipitation falls as rain, offering insight into how flood risks may change in a warming world with less snow.

Mapping the path of climate change

Predicting a major transition, such as climate change, is extremely difficult, but a new probabilistic framework is the first step in identifying the path between a shift in two environmental states.

## **Aviation**

Tracking the last flight of Kobe Bryant

Stuff.co.nz

The pilot was worried enough to ask flight controllers to keep track of them. ... Kobe Bryant helicopter got special dispensation to fly in poor weather.

Turbulent skies: How climate change will impact flights in NZ and around the globe

EXPLAINER: During a flight, severe turbulence can tip trolleys and throw passengers from their seats, leaving them shaken and even hurt.

The truth behind the NASA Challenger disaster revealed weather was to blame

The Weather Network

Tuesday, January 28th 2020, 2:30 pm - Thirty-four years ago, the Space Shuttle Challenger was lost due to extreme weather. Here's how

## **Business/Insurance**

Here are the top 10 business risks around the world

Insurance Business New Zealand

Other business risks to make the top 10 globally include: fire and explosion, climate change and the increasing volatility of weather, and ...

Burned by wildfire losses, insurance industry rethinks risks

Maintaining coverage as wildfires grow fiercer and more frequent will require lowering risks and finding new ways to fund policies for the most vulnerable, insurers say

Farming/horticulture/Aquaculture

Dry weather bodes well for Wairarapa wineries after previous frost-bitten harvest

Stuff.co.nz

Sun-drenched Wairarapa is drying out, but what's bad news for sheep farmers is great news for the region's wineries. Temperatures nearing the early

## **Fire**

The science of wildfires

Fire scientists say New Zealand wildfires will increase in frequency and severity, and they are concerned that many people are underprepared.

Government (regional and national)

Govt's \$12b infrastructure spend: Rail, roads and DHBs the big winners

The Prime Minister has revealed a huge spend-up on roads, to come out of the \$12 billion Infrastructure Fund

Satellites and radar

NOAA satellites helped save a record 421 lives in 2019

WorkBoat

The same NOAA satellites that helped forecasters track weather and wildfires were also critical in rescuing a record 421 people from potentially ...

### **Journal and articles online**

The Prevalence and Rationale for Presenting an Opposing Viewpoint in Climate Change Reporting: Findings from a U.S. National Survey of TV Weathercasters

Kristin M. F. Timm, Edward W. Maibach, Maxwell Boykoff, Teresa A. Myers, and Melissa A. Broeckelman-Post

Valuing Seasonal Climate Forecasts in the Northern Australia Beef Industry

D. H. Cobon, R. Darbyshire, J. Crean, S. Kodur, M. Simpson, and C. Jarvis

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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.

January 28, 2020

News

Penn State severe weather expert reflects on advances in the field

January 27, 2020 - Penn State University

Jenni Evans, immediate past president of the American Meteorological Society, says leadership role offered insight for students as society celebrates 100 years.

[Read MORE](#)

[More rain, less snow increases flooding](#)

January 27, 2020 - Phys.org

As the world warms and precipitation that would have generated snowpack instead creates rain, the western U.S. could see larger floods, according to new Stanford research.

[Read MORE](#)

[Weather challenges renewable energy systems, IEA says](#)

January 27, 2020 - Safety4Sea

The extreme weather conditions taking place today are impacting renewable energy systems and infrastructures around the world, most likely becoming a major energy security concern for the future.

[Read MORE](#)

[Earth's most biodiverse ecosystems face a perfect storm](#)

January 27, 2020 - Phys.org

A combination of climate change, extreme weather and pressure from local human activity is causing a collapse in global biodiversity and ecosystems across the tropics, new research shows.

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[Media Invited to Renaming Ceremony for International Ocean Science Satellite](#)

January 24, 2020 - NASA

NASA and its partners on an upcoming mission to extend long-term observations of global sea level change will announce the renaming of the mission, currently known as Sentinel-6A/Jason-CS, at a ceremony at 9 a.m. EST Tuesday, Jan. 28.

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[Assessing risk of chemicals to wildlife is huge challenge that requires new approach](#)

January 24, 2020 - EurekAlert!

Computer modelling and long-term environmental monitoring will be essential, says review paper in Science.

[Read MORE](#)

[A relationship between severe winter weather and Arctic warmth?](#)

January 24, 2020 - Phys.org

A new review article published in Nature Climate Change evaluates whether severe winter weather in the United States, Europe and Asia is sensitive to Arctic temperatures.

[Read MORE](#)

[Acting NOAA leader stresses importance of public-private partnerships](#)

January 22, 2020 - SpaceNews

At last week's annual meeting of the American Meteorological Society in Boston, NOAA said it wants to increase the number of radio occultation soundings, which provide temperature and humidity profiles of the atmosphere, from about 2,000 per day to 20,000 per day.

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[Last decade most expensive for natural disasters: report](#)

January 21, 2020 - Reuters

The last decade was the worst on record for economic losses from natural disasters, amounting to \$3 trillion - over a trillion more than the previous decade, insurance broker Aon (AON.N) said on Wednesday.

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Top weather society honors Mann for children's book on climate change

January 21, 2020 - Penn State University

Climate expert Michael Mann was honored for his book “The Tantrum that Saved the World,” which the American Meteorological Society (AMS) said “engages readers with empathy and compassion and empowers them to help save animals and people from the threat of climate change.”

Read MORE

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Weather Eye with John Maunder

<https://www.sunlive.co.nz/blogs/14304-auranga-december-rainfalls-18982019.html>

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