

New Zealand weather and climate news

These clips come courtesy of the MetService Library, thanks

MetService

MetService called back to Parliament to 'please explain' 5G issues

Parliamentarians have been reassured by MetService it has a plan to deal with any corruption of crucial weather satellite data by 5G cellphone technology.

Clear skies and light winds bring freezing temperatures to much of NZ

MetService meteorologist Tom Adams said clear skies and light winds brought icy temperatures to most of the country overnight.

Queenstown's snow drought: Skifields relying on snowmaking

New Zealand Herald

However that's dependent on overnight temperatures, at least, remaining cold. MetService weatherman Peter Little says he's not expecting any large ...

Twizel resident records highest atmospheric pressure in 25 years of recording

Stuff.co.nz

MetService communications meteorologist Lewis Ferris said that, although the organisation's closest weather station at Lake Pukaki recorded ...

'Sweet spot' brings Dunedin's warmest July day on record

Dunedin basked in a weather sweet spot yesterday and recorded its warmest July temperature since records began.

First half of year among warmest, milder weather to continue

New Zealand Herald

Meteorologists crunching data on the first six months of 2019 expect it will place within the top 10 warmest – and would have been in the top five if not ...

Near-record temperatures in Canterbury 'significantly' above July average

MetService meteorologist April Clark said the temperature at Christchurch Airport had reached 19.6C on Wednesday afternoon. The record for this time of year, from 2012, was 22.4C.

[Auckland warned to expect heavy rain, localised downpours on Thursday](#)

Metservice meteorologist April Clark said it would be a "pretty wet day" – a change for Auckland, which has been quite dry.

[Heavy rain warning in place for Bay of Plenty and Rotorua](#)

New Zealand Herald

MetService meteorologist Melissa Oosterwijk said 6.5mm of rain was recorded at Tauranga Airport in half an hour this morning while 30mm was ...

[Risk of avalanches as icy, rainy front sweeps northwards](#)

RNZ

MetService predicts possible heavy rainfall, gales and snow down to about 800 metres across some parts of the alps that should ease into the evening ...

[Warnings over avalanche risk in Southern Alps](#)

Otago Daily Times

MetService predicts possible heavy rainfall, gales and snow down to about 800 metres across some parts of the alps, but conditions should ease into ...

[Blenheim records overnight temperature 10C above average](#)

Stuff.co.nz

Government report reveals MetService considering new hot weather warnings ... MetService meteorologist April Clark said the "very mild" overnight ...

[Long, dry spell pleases South Canterbury farmers](#)

Stuff.co.nz

Last month, the MetService's weather station recorded only 18.2mm of rainfall, about half the monthly average. This included a rain event which saw ...

[Your weather: Heavy rain on the way, after dry six months](#)

New Zealand Herald

MetService meteorologist Georgina Griffiths said many rain gauges in the Auckland region have observed their driest January to June period on ...

Rain with intense downpours for top half of North Island, heavy snow in the east

The heavy rain looked likely to arrive in Auckland from either late this morning, or early afternoon, MetService meteorologist Stephen Glassey said early on Thursday.

MetOcean

Study finds urgent need to understand New Zealand's blue backyard

New Zealand is missing crucial opportunities to manage its vast marine estate - for the simple reason that we know too little about it, researchers say.

ECMWF

June Was the Hottest Month Ever Recorded: 'We Are Likely to See More of These Events'

PEOPLE.com

... toasty days, and the month's temperatures beat out the previous record, set in June 1999, by 1.8 degrees Fahrenheit, the ECMWF's statement read.

Seasonal forecasting of tropical cyclone landfall using ECMWF's System 4

AMS Journals - American Meteorological Society

A method has been developed to forecast seasonal landfall risk using ensembles of cyclone tracks generated by ECMWF's seasonal forecast system ...

WMO

Urgency of climate action highlighted for U.N. summit preparatory meeting

Earth is set to experience its five warmest years on record from 2015-2019, according to the World Meteorological Organization (WMO). Increasing greenhouse gas concentrations will fuel the global...

Europe sees first heatwave of the year

Many parts of Europe are experiencing the first heatwave of the year as a result of warm air masses from Africa, setting new monthly temperature records for June and bringing with it an

influx of...

WMO launches 2020 Calendar Competition

The World Meteorological Organization celebrates its 70th anniversary in 2020. We are looking for high-quality and artistic photographs of the amazing beauty and power of our weather and our...

New report card shows state and value of ocean observations

A new Ocean Observing System report card provides insight into the status of the global ocean observing system. With the current and increasingly urgent need for nations to take decisions related to...

Temperature records fall in European heatwave

Posted:

An unusually early and intense heatwave has set new temperature records in Europe, posing a major threat to people's health, agriculture and the environment. Initial reports indicated that...

Volcano alert

Officials just raised the alert on Earth's largest active volcano

The Weather Network

The U.S. Geological Survey (USGS) announced Tuesday they were raising the alert level for Hawaii's Mauna Loa volcano to 'advisory' -- the second ...

Extreme weather (and other news) – Australia and Pacific

Hurricane Barbara Rapidly Intensifies Into Category 4, May Pass Near Hawaii Next Week as a ...

The Weather Channel

Hurricane Barbara rapidly intensified into a Category 4 hurricane in the ... as early as Saturday morning, according to the National Weather Service.

Snow has been falling in Western Australia since records began

ABC News

The Bureau of Meteorology WA media and communication manager, Neil Bennet, said that there may have been more snow events than officially ...

[A new team is working to predict the danger zones of Australia's deadliest heatwaves](#)

It has been 10 years since Victoria's Black Saturday fires killed 173 people — the worst bushfires in Australia's history.

Extreme weather (and other news) – Asia and the Middle East, Africa

['Disastrous' weather events claimed 1428 lives in India in 2018: Govt](#)

Business Standard

Uttar Pradesh recorded 590 deaths due to "disastrous" weather events, ... by Business Standard staff and is auto-generated from a syndicated feed.).

[Expect up to five typhoons: CWB](#)

Taipei Times

The effects of El Nino are minor, but they could contribute to more moderate temperatures in Taiwan, although that could be mitigated by the effects of ...

[Met Dept calls for use of nuclear technology](#)

Bulawayo24 News (press release) (blog)

Zimbabwe's Meteorological Service Department (MSD) acting director Rebecca Manzou has urged nations to use technologies meant to detect ...

[Newly formed tropical depression to bring flooding, mudslides to China and Vietnam this week](#)

AccuWeather.com

A new tropical depression formed in the South China Sea on Monday and will bring days of heavy rainfall to parts ... Interactive China weather satellite

[Skymet Sets up 100 Automatic Weather Stations in Mumbai to Track Heavy Rains And Flooding](#)

News18

“Being India's first private weather forecasting company, we believe that even with existing technologies, loss of life and property was meaningless on ...

[More rain, high waves expected this month](#)

Pattaya Mail

... said a build-up of a low pressure system over the South China Sea is affecting weather systems in Thailand and intensifying the southwest monsoon ...

Extreme weather (and other news) – Americas and Europe

Deadly European heatwave highlights global climate crisis

At least eight people die in France, Italy and Spain, while parts of the continent get relief from record temperatures.

Photos show freak summer hailstorm coating roads with 5 feet of ice in Guadalajara, Mexico

Business Insider

Guadalajara, the capital of Jalisco, in southwestern Mexico, experienced a freak hailstorm early Sunday. In some neighborhoods, roads were ...

What was behind Mexico's massive hailstorm?

The Weather Network

Dramatic images of Mexico's epic hail accumulations have been making the rounds since the storm struck on Sunday. Jaw-dropping scenes of streets ...

Anchorage, Alaska, shrouded by one of longest smoke events in history

AccuWeather.com

"Fluctuating winds can spread smoke back to Anchorage at times this week," according to AccuWeather Senior Meteorologist Brett Anderson.

UK to commit £193m to climate change technology research

E&T Magazine

From investing in electric motorbikes to improving weather warning systems and boosting clean energy, Britain's foreign aid department, the ...

International news and research

Meteorologists use technology to track storms with more accuracy

Viera Voice

Meteorologists are excited about both the present and future of tropical cyclone forecasting. The rationale for that excitement can be seen clearly when ...

On Everest to set up world's highest weather station

Asia Times

The day before we had celebrated installing the highest operating weather station in the world, near Camp IV at almost 8,000 meters. Only one team of ...

Climate impact of clouds made from airplane contrails may triple by 2050

In the right conditions, airplane contrails can linger in the sky as contrail cirrus -- ice clouds that can trap heat inside the atmosphere. Their climate impact has been largely neglected in schemes to offset aviation emissions, even though contrail cirrus have contributed more to warming than all CO₂ emitted by aircraft since the start of aviation. A new Atmospheric Chemistry and Physics study found that the climate impact of contrail cirrus will triple by 2050.

Climate warming could increase malaria risk in cooler regions

Malaria parasites develop faster in mosquitoes at lower temperatures than previously thought. The findings suggest that even slight climate warming could increase malaria risk to hundreds of thousands, if not millions, of people -- including travelers -- in areas that are currently too cold for malaria parasites to complete their development.

Thunderbolt of lightning, gamma rays exciting

Scientists discover a connection between lightning strikes and two kinds of gamma-ray phenomena in thunderclouds. The research suggests that in certain conditions, weak gamma-ray glows from thunderclouds may precede lightning bolts and their accompanying gamma-ray flashes.

Inside the Weather Wars That May Threaten the Daily Forecast You Depend On

TIME

Before joining NOAA in 2018, Jacobs worked in the weather-forecasting ... Private weather companies “look at the same data but through a different ...

UND receives \$1M atmospheric research contract from US Navy, bolstering new public-private

...

Newswise (press release)

WMI has a strong history in the modification and operation of special mission aircraft in the fields of cloud seeding and atmospheric research.

Computer scientists predict lightning and thunder with the help of artificial intelligence

Posted: 26 Jun 2019 09:49 AM PDT

Computer scientists are working on a system that is supposed to predict local thunderstorms more precisely than before.

New measurements shed light on the impact of water temperatures on glacier calving

Calving, or the breaking off of icebergs from glaciers, has increased at many glaciers along the west coast of Svalbard. Now, researchers have shown that, whilst subsurface water temperatures are the most important driver of frontal mass loss, they are not as important as previously thought.

5G network

US Meteorologists 'Deeply Concerned' Over 5G Roll-Out

EcoWatch

In a letter to the Federal Communications Commission (FCC), U.S. meteorologists called the potential for 5G mobile technologies to disrupt ...

Mixing 5G and weather satellites could skew forecasts of next major storm

The Hill

... the cornerstone of accurate weather forecasting that mitigates economic losses ... Satellites are responsible for over 99 percent of data that sophisticated ... The impact of weather satellite data on model predictions has been clearly ...

Aviation

Flight 1016 crash led to major aviation safety improvements

WCNC.com

Flight 1016 crash led to major aviation safety improvements ... Just before 6:43 pm on July 2, 1994, US Air Flight 1016 from Columbia, South ... could see the airport they really didn't factor in the severity of the weather," Feith said.

Aircraft leave a trail of climate destruction

The Times

Corsia, the UN's scheme to offset air traffic carbon emissions from 2020, ... by aviation, according to Keith Shine of the Department of Meteorology at ...

China's new giant airport ready for September launch

cgtn.com

The new airport also has advanced Chinese-designed radar systems that offer faster and more accurate weather forecasts. The systems only take one ...

After SpiceJet scare, DGCA issues new landing guidelines for bad weather

Business Standard

In a stern warning to airlines, the DGCA director general said on Wednesday that all aircraft should refrain from landing with "unstabilised approach" ...

No domestic airliner has crashed from a storm downburst in 25 years, a testament to aviation ...

Washington Post

Whenever meteorology saves lives it is a cause for celebration, and that is certainly the case Tuesday. It is the 25th anniversary of the (hopefully) last ...

Assess risk before operating flights in bad weather conditions

The Economic Times

NEW DELHI/MUMBAI: In the wake of multiple incidents of planes overshooting runways due to bad weather conditions, airlines were on Tuesday ...

Business/Insurance

Five Industries That Rely On Weather To Make Decisions

Forbes

Some industries live and breathe by the weather forecast. Aviation customers plan routes around catching a fuel (and cost) saving jet stream, while at ...

Wet weather hits shop prices

insider.co.uk

Mike Watkins, head of retailer and business insight at Nielsen, added: "On the non-food high street, retailers are maintaining the level and depth of ...

Energy and Mining

Air Conditioning Is the World's Next Big Threat

Bloomberg

The extra power demand may cause a vicious circle on warming. troubling: Extreme weather led to more demand for air conditioning and heating in ...

Range of renewable technologies needed to cope with extreme weather, report claims

Network (blog)

The future UK energy system must be able to cope with extreme weather events and will rely on a diverse range of renewable generation technologies ...

Farming/horticulture/Aquaculture

Midwestern farmers' struggles with extreme weather are visible from space

Washington Post

Midwestern farmers' struggles with extreme weather are visible from space The production squeeze from the lower acreage will be multiplied by what Kevin McNew, chief economist at Farmer's Business Network, estimates will be ...

Fog

How The Advance Weather Forecast Got Good

NPR

And it's all because weather forecasting — specifically, the supercomputer-driven modelling which crunches huge amounts of data and predicts future ...

Government (regional and national)

Wellington predicted to be economic powerhouse in new report

A boost in government spending looks likely to push the capital to win the economic race between the regions.

Councils need help with sea level rise, intense rain events: Productivity Commission

New methods, possibly including central government funding, are needed to help councils adapt to climate change, provide infrastructure for rapid urban growth, and cope with the growth of tourism, the Productivity Commission says.

Health

Climate Change Toolkit for Health Professionals

“This toolkit consists of eight modules which have been prepared as stand-alone documents that can be read by themselves, but they have also been prepared to complement one another. It has been designed as a tool for health professionals and students in the health care and public health sectors who want to engage more directly on the issue of climate change as educators with their patients, peers and communities, and/or as advocates for the policies, programs and practices needed to mitigate climate change and/or prepare for climate change in their workplaces and communities.” Source: Canadian Association of Physicians for the Environment

History

Centuries-Old Sea Captain Diaries Are Confirming Modern Climate Science

When 19th century whalers jotted down weather and temperature measurements at sea, few might have imagined that their logbooks would become ...

How a Nazi incursion into Labrador to set up a secret weather station heralded a new era

Toronto Star

The desperation for them has led to expanded networks and new technologies. World War II marked the beginning of a transformation of weather ...

Lightning

Heat lightning: Fact or fiction?

Dayton Daily News

“Heat lightning isn't actually a real thing,” said Storm Center 7 Meteorologist Jesse Maag. “It's lightning observed from a far distance giving it an ...

Lightning strike injures 8 hikers at Devil's Head in Colorado

AccuWeather.com

Douglas County Search and Rescue carrying a critically injured hiker down a trail after being struck by lightning. (Image via Twitter/DCSARColorado).

Satellites and radar

Rocket Lab takes off in third mission of 2019

Stuff.co.nz

Rocket Lab has successfully launched its Electron rocket for the seventh time. The "Make It Rain" launch was lifting seven small satellites to low Earth ...

Innovation and technologies (inc data and new products)

Five smart city technologies that Sidewalk Labs is pitching

Canada.com

The paths will be connected to real-time weather forecasts and power on two to three hours in advance of a snowstorm. The system will reach two to ...

Can you trust your weather app?

Digital Trends

... enables our forecasters to be much more efficient in their jobs," said a spokesperson for The Weather Company, which owns The Weather Channel ...

Climate change / global warming / sea level rise

Climate change's hot summers could unleash more rat infestations: pest controllers

Fat rats are brazenly overrunning suburbs across Auckland, and it could become an ongoing problem due to climate change, the association representing pest controllers says.

Existing power plants will blow past 1.5 degree climate limit, scientists warn

The Weather Network

According to a new international study, there are enough fossil fuel power stations now to drive us well beyond the 1.5°C limit to global warming ...

Wildfires and climate change: What's the connection?

As global temperatures rise, wildfires are getting more frequent and intense.

Motu Working Paper 19-12 Winchester, Niven, Dominic White and Catherine Leining. 2019. “[A Community of Practice for Economic Modelling of Climate Change Mitigation in NZ.](#)”

The public and private sectors face important strategic decisions about low-emissions transitional pathways. Such decisions require sound evidence, with input from experts and stakeholders across the board. Models can be used for evidence-based decision-making, but New Zealand has shortcomings in its capacity for climate policy analysis, particularly in comparison with other jurisdictions. These deficiencies pose a serious risk to New Zealand’s future economic development. Climate policy analysis requires assessing a wide range of factors. A multi-model approach supported by multiple providers improves consistency, coordination, and collaboration across members of the modelling community, users of modelling results, and funders of modelling. This document summarises the compelling case for developing a New Zealand ‘Climate Policy Modelling Initiative’ (CPMI). This initiative would coordinate and enhance delivery of modelling across multiple providers. This work is informed by several workshops that brought together economic modellers from a range of organisations. If supported by government leadership and commitment, the CPMI would have a transformational effect on New Zealand’s capacity to plan for a successful low-emissions future. [More here...](#)

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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.

July 2, 2019

News

['Incredible' and 'crazy:' Antarctic sea ice shrinks dramatically to record low levels](#)

July 2, 2019 - USA Today

A University of Washington-led team of scientists used robots and seals to help them understand why mysterious holes form in Antarctic sea ice, according to a study published in the journal Nature.

[Read MORE](#)

[A "Screaming" Weather Map Basically Captures France's Extreme Heat](#)

July 2, 2019 - CNN

France is in the sweaty grasp of a hot weather phenomenon known as la canicule—and forecasters are running out of ways to describe both its immediate danger and ominous long-term significance.

[Read MORE](#)

Freak Hailstorm Buries Mexican City Under Feet of Ice

July 2, 2019 - The Weather Channel

The city of Guadalajara in Jalisco, Mexico, was paralyzed by a hail storm. Five feet of hail piled up in some spots.

[Read MORE](#)

How Remote Lakes Could Help Unravel the Mysteries of Microplastic

July 1, 2019 - Wired

The microplastic menace is a maddening conundrum: The pollutant shows up everywhere, but science knows very little about it.

[Read MORE](#)

How The Advance Weather Forecast Got Good

June 30, 2019 - National Public Radio

Andrew Blum wanted to know how those forecasts got made, and his curiosity led him to research and write *The Weather Machine: A Journey Inside the Forecast*.

[Read MORE](#)

U.S. Meteorologists 'Deeply Concerned' Over 5G Roll-Out

June 28, 2019 - EcoWatch

U.S. weather forecasters are the latest group to sound the alarm that the race to introduce 5G technologies may have adverse consequences.

[Read MORE](#)

Assessing All Risks Is Vital to Understanding a Hurricane's Impact

June 28, 2019 - Government Technology

While wind speeds capture headlines, North Carolina's history proves that people in storm-susceptible areas should heed the risk of inland flooding, storm surge, tornadoes and falling trees, among other hazards.

[Read MORE](#)

[Backup Laser to Revive Aeolus Wind-Sensing Satellite](#)

June 27, 2019 - IEEE Spectrum

Early results have shown that ultraviolet lidar can provide vital new data for weather and climate studies, but the laser power is slowly fading.

[Read MORE](#)

[NASA Is Officially Sending an Aerial Drone to Titan and It's a Dream Come True](#)

June 27, 2019 - Gizmodo

NASA approved an exciting new mission that will send a tiny aerial drone to soar above Titan's alien surface.

[Read MORE](#)

[NASA Scientists Track the Future of Asia's Glaciers](#)

June 26, 2019 - SciTech Daily

Himalaya. Karakoram. Hindu Kush. The names of Asia's high mountain ranges conjure up adventure to those living far away, but for more than a billion people, these are the names of their most reliable water source.

[Read MORE](#)

[When Will the Next Hurricane Strike California?](#)

June 26, 2019 - Medium

The state hasn't been hit by such a storm since 1858 — but the chances rise in El Niño years like this one.

[Read MORE](#)

[Scientists Are Probing Tornadoes With Drones to Save Lives](#)

June 26, 2019 - Earther - Nature for Nerds - Gizmodo

The widespread danger of tornados offered an opportunity for a group of scientists looking to help ensure people in tornadoes' paths have more time to get out of harm's way.

[Read MORE](#)

[Russian Volcano Erupts for the First Time Since 1924 And the Images From Space Are Stunning](#)

June 25, 2019 - The Weather

Raikoke Volcano on the Kuril Islands of Russia, south of the volcanically active Kamchatka Peninsula, erupted last weekend for the first time since 1924 and the images from space were out of this world.

[Read MORE](#)

[Gamma-ray phenomena linked to lightning strikes](#)

June 25, 2019 - Medium

Weak gamma-ray glows from thunderclouds may precede lightning bolts and accompanying gamma-ray flashes.

[Read MORE](#)

[The 10 Strangest Weather Events We've Seen in 2019 So Far](#)

June 25, 2019 - The Weather

Halfway through 2019 we've seen our share of tornadoes, floods, winter storms, cold outbreaks, drought and tropical cyclones, but some weather events this year have downright bizarre.

[Read MORE](#)

[With floods and droughts increasing, communities take a new look at storing water underground](#)

June 25, 2019 - Medium

Groundwater recharge is the latest wave in water security — though challenges remain.

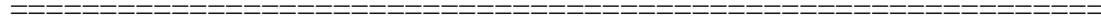
[Read MORE](#)

[Why Weather Forecasting Keeps Getting Better](#)

June 24, 2019 - The New Yorker

The stakes can be so much higher than whether you'll need an umbrella today.

[Read MORE](#)



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