

New Zealand weather and climate news

Thanks ro MetSevice for these clips

MetService focus

Cold blast to hit much of country

Otago Daily Times

Much lower temperatures are expected around the country as cold air surges north, MetService says. Severe weather warnings and watches for heavy ...

Otago dodges blast, snow closes roads in Canterbury - Otago Daily Times

Year's first snow warnings: Skifields welcome 'decent' snowfall - newsie.co.nz

Snowfall warning for Desert Road - SunLive

Cold ahead of next wintry blast; big waves on the way

"There's a little bit of a respite, I guess; still a few showers around but a weak ridge moving across the country eases things before the next system comes tomorrow," MetService meteorologist Michael Martens said around 5am Thursday.

'First big dump' of snow hits the South Island, closing highways, skifields

MetService meteorologist Andrew James said the southerly front that brought the wintry blast had made its way up the South Island and was passing through Wellington just before 2pm.

All Blacks at MetService to help give the Test weather forecast

Scoop.co.nz

MetService Broadcast meteorologist Angus Hines was joined by Richie, Angus and Joe to present the video forecast for the match and give their ...

Winter woollies required as cold snap descends on Taranaki

MetService meteorologist Curtis Hayes said the start to the week would bring fine weather with some high cloud and north-easterly winds.

What winter? Weather gods smile on New Zealand again, but change looming

New Zealand Herald

A ridge is still parked over New Zealand and that meant a continuation of yesterday's dry weather for most, MetService meteorologist Curtis Hayes said ...

Snow for some this week but details still elude forecasters

On Sunday afternoon meteorologist Tom Adams told Stuff there was still a lot of uncertainty about where the snowy conditions would hit hardest mid-week, due to the development of small spinning centres within a larger area of low pressure and below an upper-level trough.

Cold snap looming as slow-moving low-pressure system moves over New Zealand

New Zealand Herald

MetService meteorologist Tom Adams told the Herald a high-pressure system lying over the Chatham Islands is behind the abnormal winter weather

Auckland hailstorm leaves eastern suburbs covered in 'snow'

Stuff.co.nz

MetService meteorologist Amy Rossiter said Aucklanders were seeing the worst of the weather and it would get better as the night continued.

More freezing temperatures expected overnight across the country

"Being on the coast helps moderate that temperature, as the south westerly winds mix it up," MetService Meteorologist Amy Rossiter said.

Hawke's Bay to be hit by cold snap

New Zealand Herald

The mild winter weather is about to turn, with a cold couple of days in store for Hawke's Bay. MetService meteorologist Lewis Ferris said the ...

Year's first snow warnings: Skifields welcome 'decent' snowfall

RNZ

MetService has issued its first heavy snow warning of the season, and is ... MetService has issued road snowfall warnings to 300 metres for Haast ...

Cross about the coming cold snap? Blame it on negative SAM

New Zealand Herald

MetService has just issued warnings for heavy snow in places in the South Island, with the white stuff accumulating at 400m in some parts. "The driver ...

[Watch: Eerie scenes at empty Hanmer Springs, as heavy snow blankets tourist hotspot](#)

TVNZ

According to the MetService: "This front should deliver a period of snow to southern Fiordland, Southland and Clutha, with low confidence of heavy ...

[Big snow: Warnings on roads, delight on skifields](#)

Otago Daily Times

MetService has this morning lifted a heavy snow watch for the Southern Lakes area, Central Otago from Omakau southwards, and inland parts of ...

[More freezing temperatures expected overnight across the country](#)

Stuff.co.nz

Freezing and below freezing temperatures will greet most of the country on Thursday morning, with more frosts and snow expected. Metservice is ...

[Search for boatie who fell overboard near Hihi, warning over gale-force winds](#)

New Zealand Herald

MetService reports a gale-force warning is in place for the Doubtless Bay boating forecast, with westerly winds reaching speeds of 20 knots. Overnight ...

[Snow forecast for higher regions of South](#)

Otago Daily Times

The MetService is urging farmers to prepare for possible snow over much of Otago and Southland this week. Tomorrow, a cold front is forecast to hit ...

[Unique view on a multi-million dollar attraction](#)

Stuff.co.nz

New star in Tekapo's astro-tourism business a step closer Dark Sky Project Business Manager Craig Jones said "bad weather, primarily cloud and ...

25 meteors an hour will light up New Zealand skies thanks to two meteor showers

Two simultaneous meteor showers will light up the night sky across New Zealand, with as many as 25 meteors per hour crashing into Earth's atmosphere and leaving dramatic trails of light in their wake.

Volcano alert

Huge Ash Cloud Blasts Out of Indonesian Volcano

Tangkuban Perahu, a volcano on the island of Java in Indonesia, blasted a huge cloud of ash into the air today (July 26), causing panic and spurring an evacuation of the vicinity, according to the Associated Press (AP).

Extreme weather (and other news) – Antarctica and offshore

Watch what happens when boiling water hits Antarctic air

New Zealand Herald

MetService has shared a video of one of its former meteorologists, John Law, in the chilly continent. In a clip that mirrors something Elsa from Disney's ...

Extreme weather (and other news) – Australia and Pacific

BOM to upgrade cloud infrastructure in AU\$16.5m deal with Unisys

ZDNet

The Australian Bureau of Meteorology (BOM) has awarded Unisys a ... Unisys Asia Pacific vice president and general manager Rick Mayhew ...

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

Extreme weather hurting crop output in Asia-Pacific

The Straits Times

BANGKOK • In a year when record heat is scorching Europe and the heaviest rain in decades has inundated parts of the American Midwest, the ...

Global Weather Chaos Is Also Taking Its Toll on Asia's Crops

Hellenic Shipping News Worldwide

In a year when record heat is scorching Europe and the heaviest rain in decades has inundated parts of the U.S. Midwest, the Asia Pacific region is ...

Peak season for typhoons starts

Taipei Times

Simulations from the European Centre for Medium-Range Weather ... above the area from the South China Sea to the northwest Pacific Ocean, ...

Tropical depression to unload heavy rain, gusty winds on China, Vietnam

AccuWeather.com

... as early as Tuesday night as the tropical system becomes better organized across the South China Sea. ... Interactive China weather satellite

Indonesia seeks to share meteorological information

CAPA - Centre for Aviation

Indonesia's Director of Aviation Navigation Asri Santosa, speaking during a forum on Aviation Meteorological Information Services hosted by the ...

Ambitious plans under way for home-grown South African climate change model

Daily Maverick

She also believes that in some cases, South African weather and climate ... “Before the use of satellites as an input to numerical models, there was a ...

Extreme weather (and other news) – Americas and Europe

Met Office asks Twitter to help it name the next storms – and Boris has been suggested

The Independent

The Met Office is calling on the British public to help them name the UK's next storms. On Tuesday, the national weather service posted on Twitter ...

Top ten UK's hottest years all since 2002

An updated analysis of the annual UK temperature records from the Met Office shows that since 1884 all of the UK's ten warmest years have occurred since 2002; whereas none of the ten coldest years have occurred since 1963.

Met Office boffins now think new UK record for hottest day has been set

Cornwall Live

The Met Office announced: "Today the Met Office observations team has received a new provisional figure of 38.7C at Cambridge University Botanic ...

Fall-like air breaks record lows from early 1900s in parts of southern US

AccuWeather.com

A recently installed weather station run by Virginia Tech Meteorology showed a low temperature of 38 F in Canaan Valley, West Virginia Wednesday ...

These Cities Broke Temperature Records in Europe's Heat Wave

TIME

Paris also broke its all-time record temperatures on Thursday, when national meteorological service Météo France recorded 41°C (105.8°F) at 1:42 ...

The UK's record-breaking year of hot weather in numbers

The UK recorded its second-highest temperature ever on July 25, but 2019 has been a record-breaking year when it comes to heatwaves the world over

Erick Becomes Hurricane, Tropical Storm Flossie Strengthens

Big Island Video News

Track guidance is more divergent tonight with the ECMWF and its ensemble considerably faster than the rest of the models. It is notable, however, that ...

In the Scandinavian countries recorded temperature record

www.MICETimes.asia (press release)

Local meteorologists are sounding the alarm, because the last time such phenomena was recorded 75 years ago. Earlier in the week the heat was a ...

International news and research

Local Weather Forecasts Depend on Global Cooperation

Bloomberg

Improvements in weather forecasting are built upon a collection of such ... to improve, the question arises of how to integrate public and private data.

AccuWeather's tribute to Fuqing Zhang: 'A tragic loss' for the worldwide weather community

Fuqing Zhang, distinguished professor of meteorology in the Meteorology Department of the College of Earth and Mineral Sciences at The Pennsylvania State University, died July 19, not long after being diagnosed with cancer, according to an obituary on Penn State's website. He was 49.

Cloud wars: How startups want to revolutionise weather reports

Forbes India

Wiry and fit at 79 with a full head of dyed brown hair, Myers runs America's oldest independent private weather forecasting company. He founded it in ...

The Weather Machine: How We See Into the Future — the highs and lows of meteorology

Financial Times

An individual's "observations are useless; for they are made upon a point", Ruskin wrote in Transactions of the Meteorological Society, "while the ...

GOP senators wanted to stop climate change training for weathercasters. It backfired

Los Angeles Times

While TV meteorologists have been gobbling up reports and camera-ready graphics on climate change, the work of the New Jersey-based group has ...

Scientists Are Getting Better at Predicting Killer Heat Waves

WIRED

The ability to predict the next heat wave is a big deal to meteorologists. That's because more warning means extra time to prepare cooling centers and ...

Weather apps and sites you don't want to overlook

TechRepublic

Weather affects everyone, but we don't always pay attention to the source details of weather forecasts we see, hear, or read. Weather can make the ...

[Forecasting tornadoes with weather balloons](#)

The Columbian

The team aims to launch miniature weather balloons about 12 to 16 inches in diameter into the air at the periphery of the storm. Attached to each ...

[Enthusiast behind lightning strike map runs weather station from his Fife home](#)

The Courier

Born in Scotland, his family moved to Australia when he was a baby and he ... One of the latest additions to the FifeWeather site was a live lightning ...

[How Met Office meteorologists forecast thunder and lightning](#)

Glasgow Live

So in a bid to understand why this keeps happening, we spoke to Met Office meteorologist and presenter Alex Deakin to ask: 'How difficult is it to ...

[Magnet and Neuron Model Also Predicts Arctic Sea Ice Melt](#)

The Ising model, now almost a century old, shows how natural systems can behave in related ways

[Why are there so many tornadoes in Tornado Alley?](#)

Why it matters: The US tallies more than 1,000 tornadoes per year -- more than any other country in the world. Most of the activity takes place in the central part of the country. This video does a great job of explaining why.

[Vox \(7/30\)](#)

Aviation

[Waikanae Air Scouts get royal recognition](#)

New Zealand Herald

Waikanae Air Scouts have become the fourth Air Scouts troop in New ... They also teach all-round aviation which includes meteorology, navigation, ...

Business/Insurance

Farmers Edge unveils new insurtech platform for agricultural insurers, growers

Insurance Business Canada

For growers, FarmCommand allows them to share data directly to their insurers, saving time and eliminating the risk of data losses. ... health change maps and notifications; disease and pest models; severe weather forecasting and ...

Marston's shares plunge as beer sales slow amid poor weather

Independent.ie

The pub and brewing business saw shares dive 9% in early trading after it said poor weather stopped it from matching strong sales from 2018, which ...

Winter ice-cream headaches? How businesses survive the chill

The Sydney Morning Herald

The business which turns over \$1 million is always thinking about new weather-appropriate flavours, though Mariotti says families are increasingly ...

Communications/social media

The Weather Channel Receives Two Emmy Nominations

The Weather Channel

The Weather Channel has received two News and Documentary Emmy nominations for work produced last year, the National Academy of Television ...

The Power of Weather (TVNZ on demand)

New Zealand is aiming for 100% clean and green electricity production by 2035. But have we got what it takes? 1 News meteorologist Dan Corbett travels the country to discover how New Zealand's unique combination of water, wind and sun make us ideally placed to harness the power of weather.

Energy and Mining

Warmer weather cools profits at Scottish Power

The Times

Mild weather, the government's energy price cap and customer losses ... Keith Anderson, chief executive, said demand was 8 per cent lower year on ...

Government model points to 1000 more wind turbines by 2050

New Zealand will need about another 1000 wind turbines to fulfil a government projection of 3390 megawatts of extra wind energy by 2050, Wind Energy Association chief executive Grenville Gaskell says.

Health

Why heat waves are a threat to public health

Low-income people, who often lack A/C, may suffer the most.

Hot pavement can cause second-degree burns in two seconds

The Weather Network

Monday, July 29th 2019, 5:27 pm - During a heatwave, it's not uncommon for temperatures to climb to 40 degrees Celsius or above.

History

Great snow of 1939: A world away from the weather today

One of Dunedin's most memorable snow events, the "Great Snow of 1939" brought the city to a shivering and prolonged halt. On the 80th anniversary of the polar blast, these photographs illustrate just how much snow there was.

Hydrology / Flooding

Innovative flood mapping helps water and emergency management officials

During record spring rains in Kansas, researcher helped officials get a more precise read on where floodwaters could rise.

Lightning

10 interesting facts about lightning

The Weather Network

Monday, July 29th 2019, 4:48 pm - Lightning is a common occurrence -- especially in the summer. Here are 11 lesser-known facts about the ...

Satellites and radar

Rocket Lab Successfully Launches 'Make It Rain' Mission From New Zealand

SpaceWatch.Global (press release) (blog)

Rocket Lab's 'Make it Rain' mission clearing its launch pad in New Zealand. Photograph courtesy of Rocket Lab. A Rocket Lab Electron launch vehicle ...

Even Satellites Can See Europe's Sweltering Heat Wave

Space.com

That makes this approach a more accurate representation of land temperature than traditional weather forecasts that predict air temperatures, ...

Space weather

Cold, dry planets could have a lot of hurricanes

Study overturns conventional wisdom that water is needed to create cyclones.

Transport/roading/shipping/freight

Napier Port back in business after swells keep ships at bay for four days

New Zealand Herald

Napier Port back in business after swells keep ships at bay for four days ... spokesperson said several flights were cancelled due to the weather.

How to minimise ship berthing incidents

Splash 247

Adverse weather can be significant for a ship in a port environment. Wind may cause heading changes and leeway; failure to compensate correctly for ...

Why UK railways can't handle a heatwave - and how technology could help

Telegraph.co.uk

Just a few hours of hot weather is enough to cause rails to bend. But why is this still a problem in the UK? And can technology provide a solution?

Cyber security and IoT

Report: Smart-city IoT isn't smart enough yet

A report from Forrester Research details vulnerabilities affecting smart-city infrastructure and offers some methods of mitigation.

Read more

Innovation and technologies (inc data and new products)

This Startup Uses Cell Tower Signals To Accurately Predict Weather

Forbes

ClimaCell, featured in a July 24 Forbes story, combines data analytics, ... had a big idea to fill in the gaps present in existing weather forecasting tools.

World's First Compact Weather Station Specifically Designed for Measuring Solar Efficiency Unveiled

Yahoo Finance

The technology is specifically designed for PV efficiency monitoring, putting the PVMet 500 in its own class with RainWise's advanced weather ...

Climate change / global warming / sea level rise

Global warming ‘unparalleled’ in 2,000 years

History is littered with pockets of warmer and cooler periods, but current warming is “not only unparalleled in terms of absolute temperatures, but also unprecedented in spatial consistency within the context of the past 2,000 years”, says new research from climate-change scientist Raphael Neukom and his colleagues. [Neukom tells the Nature Podcast](#) how he determined that, for more than 98% of the globe, the warmest period has been within the past 100 years.

[Nature Podcast | 19 min listen](#)

The Risk of Conflict Rises as the World Heats Up

Ignoring the connections between climate and security poses risks for the U.S.

How to Talk Effectively about Climate Change

Our conversations have been stuck, but a new book lays out a number of ways to get them flowing productively

Green infrastructure to manage more intense stormwater with climate change

Researchers are connecting climate change to stormwater management, with the goal of increasing resiliency to major storm events. In a new case study, researchers examine two distinct watersheds and demonstrate that even small decentralized stormwater management practices like rain gardens can make a big cumulative difference to the resiliency of a watershed, using predictive modeling to assess what climate change will demand of our future.

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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 30, 2019

News

Tornado sirens: Why some communities stay silent during severe storms

July 29, 2019 - WHIO

After an outbreak of violent tornadoes on Memorial Day, Dayton residents want what they haven't had for nearly 20 years: tornado sirens.

[Read MORE](#)

[Solar panels cast shade on agriculture in a good way](#)

July 29, 2019 - ScienceDaily

Combining solar panel (photovoltaic) infrastructure and agriculture creates a mutually beneficial relationship. This practice of co-locating the two by planting crops under the shade of solar panels is called agrivoltaics.

[Read MORE](#)

[Green infrastructure to manage more intense stormwater with climate change](#)

July 29, 2019 - [Phys.org](#)

UMD researchers are connecting climate change to stormwater management, with the goal of increasing resiliency to major storm events.

[Read MORE](#)

[The Deadly Winters That Have Transformed Life For Herders In Mongolia](#)

July 29, 2019 - National Public Radio

Dzuds, unique to Mongolia, are homegrown natural disasters born out of the country's unusual environment: landlocked, semiarid and prone to swings in temperature and precipitation.

[Read MORE](#)

[How better weather forecasts are changing the way cities are run](#)

July 26, 2019 - Curbed

It's not just about predicting the weather, but what cities do with the information.

[Read MORE](#)

[Our cities need more trees, but some commonly planted ones won't survive climate change](#)

July 26, 2019 - [Phys.org](#)

In a newly published study, we investigated likely climate change impacts on 176 of the most common tree species planted across Australian cities.

[Read MORE](#)

[Behind the Forecast: 5G versus accurate forecasting](#)

July 26, 2019 - WAVE 3 News

Would you trade an accurate weather forecast for the ability to scroll through social media and surf the internet on your phone faster than ever before? Soon, we may be making that choice.

[Read MORE](#)

[The big climate significance of the planet's microbiome](#)

July 26, 2019 - Grist

Microbiology could be key to fully understanding the climate crisis, and how to best reduce and adapt to its effects.

[Read MORE](#)

[Europe's killer heat waves are a new norm. The death rates shouldn't be.](#)

July 26, 2019 - The Washington Post

Claiming 70,000 lives, the scorcher of '03 served as a harbinger. Were no lessons learned?

[Read MORE](#)

[Scientists launch weather balloons into violent storms to improve tornado forecasts](#)

July 25, 2019 - SFGate

Penn State professors Paul Markowski and Yvette Richardson have a pretty unusual job. They launch weather balloons into supercell thunderstorms.

[Read MORE](#)

[Using weather radar to monitor insects](#)

July 25, 2019 - [Phys.org](#)

Scientists are developing a pioneering technique that allows them to monitor insects in the air using weather radars, as part of a research project called BioDAR.

[Read MORE](#)

[Special Report: A Cloudspotters' Guide to Climate Change](#)

July 25, 2019 - Reuters US News

The Cloud Appreciation Society, including past AMS president Walt Lyons, comes together to appreciate what clouds do to slow climate change.

[Read MORE](#)

[The warming U.S. foretells the return of dreaded megadroughts](#)

July 24, 2019 - Mashable

New research illustrates how a timely confluence of warm temperatures and changes in the ocean stoked a cluster of 14 potent Medieval-era megadroughts.

[Read MORE](#)

1 year until Tokyo: How might weather impact the 2020 Summer Olympics?

July 24, 2019 - [AccuWeather.com](#)

If the weather is anything like it has been in recent summers, the heat may prove to be the athletes' fiercest competitor.

Read MORE

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American Meteorological Society

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My latest WeatherEye from John Maunder

<https://www.sunlive.co.nz/blogs/13624-arctic-and-antarctic-temperatures-january-2000-to-june-2019.html>

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