

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

**These clips come courtesy of MetService Library**

### ***MetService focus***

#### **Snow warning for Dunedin's Northern Motorway**

MetService lead forecaster Michael Martens said clear skies in many places overnight let the heat out, and dropped temperatures well into the negatives.

<https://www.odt.co.nz/news/dunedin/snow-warning-dunedins-northern-motorway>

#### **Calm spell before stormy weekend**

MetService meteorologist Nick Zachar said today's weather was fairly "benign", as a weakening cold front moved up the country.

<https://www.odt.co.nz/news/national/calm-spell-stormy-weekend>

#### **Nelson's Western Ranges at their winter best after winter dumping**

MetService meteorologist Kyle Lee said snow fell to 700 to 800 metres on the ranges.

After a gloomy start to the school holidays Lee said the weather for Tasman District and Nelson City wasn't looking "too bad" for the next couple of days.

<https://www.stuff.co.nz/nelson-mail/news/105363353/nelsons-western-ranges-at-their-winter-best-after-winter-dumping>

## **Extreme weather (and other news) – Antarctica and offshore islands**

### **Strengthening west winds close to Antarctica previously led to massive outgassing of carbon**

A new explanation for the Heinrich 1 event, where temperatures over Antarctica rose 5C in less than a century, suggests strengthening westerlies around the Antarctic led to a substantial increase in atmospheric carbon. Today, human-caused climate change is causing these same westerly winds to contract towards Antarctica and strengthen, suggesting an unexpected spike in carbon dioxide could occur again.

<https://www.sciencedaily.com/releases/2018/07/180710101634.htm>

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

## **Japan's PM Abe visits flood-hit areas as death toll hits 176**

At least 20,000 remain stranded, while 225,000 households remain without water after deadly mudslides.

<https://www.aljazeera.com/news/2018/07/japan-pm-abe-visits-flood-hit-areas-death-toll-hits-176-180711085657904.html>

## **Monsoon floods kill more than 50 across Nepal**

Flooding and landslides caused by heavy monsoon rains leave thousands homeless across the country.

<https://www.aljazeera.com/news/2018/07/monsoon-floods-kill-50-nepal-180711090308614.html>

## **Airlines Cancel More Than 200 Flights as Typhoon Nears Taiwan**

Central Weather Bureau warns of strong winds, heavy rains

Local governments, including Taipei, to shut offices, schools

<https://www.bloomberg.com/news/articles/2018-07-10/airlines-cancel-over-200-flights-as-severe-typhoon-nears-taiwan>

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

### **When is it going to rain? The UK weather forecast says the dry days are coming to an end**

The 7-day Met Office forecast for Manchester says it's still going to be hot - and there's an actual forecast for rain coming soon. But is the heatwave over?

<https://www.manchestereveningnews.co.uk/news/greater-manchester-news/uk-weather-forecast-rain-when-14882678>

## **International news and research**

### **Pulse of the polar vortex revealed: A key to mapping future storms**

If you can predict the path of the jet stream, the upper atmosphere's undulating river of wind, then you can predict weather -- not just for a week or two, but for an entire season. A new study moves toward that level of foresight by revealing a physical link between the speed and

location of the jet stream and the strength of the polar vortex, a swirl of air that usually hovers over the Arctic.

<https://www.sciencedaily.com/releases/2018/07/180710110137.htm>

### **Weather forecasting depends on experience, knowledge, technology**

While technology may play a key role in helping to predict the weather, human intuition and experience tends to be the deciding factor when creating a weather forecast.

<http://www.news-herald.com/article/HR/20180709/NEWS/180709523>

### **Norman-based weather company aids in Thai cave rescue**

NORMAN — Saturday morning, Weather Decision Technologies received an email from Google: Elon Musk's SpaceX and The Boring Co. needed help.

Since then, the Norman company's WeatherOps team has been running high-resolution forecast models and creating graphics to aid the rescue of the Thai youth soccer team that has been trapped in a cave by floodwaters for weeks.

<https://newsok.com/article/5600835/norman-based-weather-company-aids-in-thai-cave-rescue>

### **M&S food 'sold off cheap' after fridges affected by warm weather**

Long spells of warm weather, or fluctuations in temperature, can cause problems for appliances

<https://www.gazettelive.co.uk/news/teesside-news/ms-food-sold-cheap-after-14887960>

### **Watch a Rocket's Sound Waves Rip a Rainbow to Bits**

Rockets are loud. With engines that can thunder at up to 200 decibels (that's 80 dB higher than the human threshold for pain), rockets roar out sound waves powerful enough to topple buildings, set bystanders' hair on fire and blast rainbows out of the sky.

<https://www.livescience.com/63030-rocket-sound-waves-shatter-sun-dog.html>

### **The UK heatwave has revealed the relics of ancient settlements**

Relics of ancient settlements have started appearing in rural Wales as ground dries out to reveal deeper trenches

<http://www.wired.co.uk/article/uk-heatwave-ancient-settlements-crop-circles>

### **What are the best, worst weather conditions for cycling?**

Whether it's for a recreational trip through the wilderness or a competitive distance race, cyclists always need to take the weather into account before they ride.

<https://www.accuweather.com/en/weather-news/what-are-the-best-worst-weather-conditions-for-cycling/70005445>

### **Show off your weather prediction skills with the Forecaster Challenge game**

AccuWeather now offers Forecaster Challenge -- a unique game where anyone can test their ability to predict the weather.

<https://www.accuweather.com/en/weather-news/show-off-your-weather-prediction-skills-with-the-forecaster-challenge-game/70003179>

### **AccuWeather joins Pocono as presenting partner of the Worry-Free Weather Guarantee**

LONG POND, Pa. (July 10, 2017) - Pocono Raceway announced a multi-faceted partnership with leading weather provider, AccuWeather. AccuWeather is now the presenting partner of the "Worry-Free Weather Guarantee" and the "Official Weather Service Provider of Pocono Raceway."

[http://www.espn.com/jayski/cup/2018/story/\\_/id/24057090/accuweather-joins-pocono-presenting-partner-worry-free-weather-guarantee](http://www.espn.com/jayski/cup/2018/story/_/id/24057090/accuweather-joins-pocono-presenting-partner-worry-free-weather-guarantee)

## **WMO**

### **July sees extreme precipitation and heat**

High impact weather, including extreme heat and disastrous precipitation, has marked the early part of summer in the northern hemisphere.

Japan has suffered the worst flooding and landslide in decades, with many daily rainfall records broken. According to official government figures on 10 July, more than 150 people have lost their lives and the casualty toll is expected to rise. Around 10,000 houses have been destroyed and/or inundated.

[Read more here](#)

**Business development / commodities / infrastructure etc**

## **Ulster Bank announces special €15m Weather Fund for farmers**

Ulster Bank has announced that it is allocating €15 million through its Weather Agri Fund to support farmers as they face continued challenges due to adverse weather conditions.

<https://www.independent.ie/business/farming/agri-business/finance/ulster-bank-announces-special-15m-weather-fund-for-farmers-37100854.html>

## **Aviation**

### **Civil Aviation Authority seek tougher rules on recreational drone use**

The Civil Aviation Authority (CAA) said an independently commissioned survey showed there were now around 280,000 Kiwis who either owned a drone or had flown one.

<http://www.radionz.co.nz/news/national/361624/civil-aviation-authority-seek-tougher-rules-on-recreational-drone-use>

## **Communications/social media**

### **Less confusion and more weather, welcome to your new column**

What's new?

You will see four new additions to the weather graphics: "Marine," "Asthma," "Frizz Index" and "State Extremes."

If air quality is an issue, AccuWeather's Asthma Index will help you determine how to go about your day. On a lighter note, the Frizz Index will let you know if you'll have a hair emergency or not.

[https://www.pressofatlanticcity.com/news/less-confusion-and-more-weather-welcome-to-your-new-column/article\\_754e0fcf-18c1-5aaf-9a2f-955015fe738e.html](https://www.pressofatlanticcity.com/news/less-confusion-and-more-weather-welcome-to-your-new-column/article_754e0fcf-18c1-5aaf-9a2f-955015fe738e.html)

### **RNZ misses out on public broadcasting fund windfall - but still pockets \$4.5m**

Broadcasting Minister Clare Curran has dished out \$15 million to RNZ and NZ On Air, saying she "doesn't buy" the argument that more funding for public service broadcasting will make business harder for struggling commercial media companies.

<https://www.stuff.co.nz/business/105403606/RNZ-misses-out-on-public-broadcasting-fund-windfall-but-still-pockets-4-5m>

## **Check out this catchy 'turn around, don't drown' song created to remind people of flood dangers**

Country singer Matt Hawk partnered with the National Weather Service to remind people to 'turn around, don't drown.'

<https://www.wzzm13.com/video/weather/accuweather/check-out-this-catchy-turn-around-dont-drown-song-created-to-remind-people-of-flood-dangers/607-8185966>

## **Energy and Mining**

### **Wet weather slows Indonesian coal exports, supports prices**

JAKARTA (Reuters) - Wetter than normal weather in recent months has slowed coal shipments from one of the main producing regions in Indonesia, the world's top thermal coal exporter, according to weather data, brokers and analysts, supporting prices of the fuel.

<https://www.reuters.com/article/us-indonesia-coal-weather/wet-weather-slows-indonesian-coal-exports-supports-prices-idUSKBN1K0161>

### **An improved forecast of sunlight helps to increase solar power production**

The sun is becoming an increasingly important source of electricity. Exact sunlight forecasts developed by A \* STAR researchers could significantly improve the performance of solar power plants, making it a viable alternative to coal-based energy sources.

<https://theweeklyobserver.com/improved-forecast-sunlight-helps-increase-solar-power-production/59954/>

## **Satellites and radar**

### **Vietnam to install 5 modern weather radars**

HO CHI MINH CITY, July 8 (Xinhua) -- Vietnam will build five new weather radar stations in its northern and central regions to provide better forecast about storms, thunderstorms and heavy rain, according to the National Center for Hydro-meteorological Forecasting on Sunday.

[http://www.xinhuanet.com/english/2018-07/08/c\\_137310220.htm](http://www.xinhuanet.com/english/2018-07/08/c_137310220.htm)

## **Weather in pictures**

### **Photos: Blinding haboobs, flooding and power outages hit Phoenix, Las Vegas**

Strong monsoonal thunderstorms caused disruptions around the Southwest Monday night as they unleashed flooding rain, blowing dust and wind gusts around 60 mph.

Towering clouds of dust could be seen rolling across the region, including the Yuma, Arizona, area. AccuWeather Extreme Meteorologist Reed Timmer captured footage of the wall of dust steadily moving through the region.

<https://www.accuweather.com/en/weather-news/photos-blinding-haboobs-flooding-and-power-outages-hit-phoenix-las-vegas/70005452>

### **Climate change / global warming / sea level rise**

#### **Businesses band together to tackle climate change**

Sixty firms that contribute almost half of New Zealand's greenhouse gas emissions are pledging to help the country reach its net zero emissions target by 2050.

The businesses' chief executives have formed the Climate Leaders Coalition after talks with the Sustainable Business Council. The group includes leaders of Z, Westpac, Ngai Tahu Holdings, Vector, Air New Zealand, Spark and NZ Post.

<https://www.stuff.co.nz/business/105398439/Businesses-band-together-to-tackle-climate-change>

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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. Searchable archives are [available online](#).

#### **Scientists capture breaking of glacier in Greenland**

ScienceDaily - 07/9/2018

the possibility of global disruptions due to climate change -- under a grant from the National Science Foundation. The research is centered

#### **Scientists race to create more resilient coral, which they hope will survive in warming oceans**

Los Angeles Times - 07/9/2018

already made a difference," said Mark Eakin, coordinator of the Coral Reef Watch project at the U.S. National Oceanographic and Atmospheric

#### **Why have record Japan rains been so deadly?**

Yahoo! News - 07/9/2018

of six typhoons, from around July to October or November. The storm fronts bring torrential downpours and heavy winds, and are closely

### **Mongolia's nomadic way of life threatened by climate change, neglect, modernity**

SFGate - 07/8/2018

Gomboluudev, head of climate research at Mongolia's Information and Research Institute of Meteorology, Hydrology and Environment. The most

### **10 things to know about monsoon season before stuff starts getting real**

Tucson.com - 07/8/2018

'ever seen a photo of an Arizona dust storm, you know they can get intense. +9 A dust storm known as a "haboob" restricts visibility in

### **The world has never seen a Category 6 hurricane. But the day may be coming**

The San Diego Union-Tribune - 07/7/2018

Whether we're talking about a change in the number of storms or an increase in the most intense storms, the changes that are likely to come

### **UPDATE 1-After devastating 2017 hurricanes, British Virgin Islands race to 'build back better'**

Reuters US News - 07/7/2018

and Atmospheric Administration's Climate Prediction Center forecasts between one and four major hurricanes packing winds of 111 miles per

### **New buildings rise in flood zones**

Money - MSN.com - 07/7/2018

in 2014, said Tal Rubin, the company's vice president of research. And last year, 2,362 flood-zone units were completed — nearly double the

### **Flattened Fluids Help Scientists Understand Oceans and Atmospheres**

Wired - 07/7/2018

to get readings of turbulence at the bottom of a hurricane, crucial data for improving hurricane forecasts. This was the first—and last—time

### **Hurricane preparedness for pregnant women, families**

WAFB.com - 07/6/2018

should continue to do so. More tips and information on hurricane preparedness during pregnancy and for other patients as well can be found

### **Ocean storm gates for NYC called threat to Hudson River**

Times Union - 07/6/2018

change, including sea level rise and surge from more frequent and intense storms. DEC is committed to exploring all options as part of a

### **Are Hot Summer Days Risky for Pregnant Women?**

LiveScience - 07/6/2018

is dehydrated" in pregnancy, Aftab said. Some research has even linked warm weather in certain regions to an increased risk of preterm

### **The Netherlands contemplates the world's toughest climate law**

Vox - 07/6/2018

like a substantial bloc of nations is forming that is taking climate change science seriously and making policy around it. The more nations

### **3 Ways Cities Can Protect Low-Income Residents From Climate Change**

CleanTechnica - 07/6/2018

the program's reach." 3. Make Disaster-Preparedness A Priority Globally, in the wake of Hurricanes Maria, Irma, and Harvey, an immensely

### **Drought conditions impacting Kansas farmers**

41 Action News - 07/6/2018

above normal temperatures as the reason for severe drought conditions. The K-State Research and Extension Office said those contributing

### **Expansion of agricultural land reduces CO2 absorption**

Phys.org - 07/6/2018

says Professor Almut Arneth from the Institute of Meteorology and Climate Research—Atmospheric Environmental Research (IMK-IFU) at KIT

### **Dealing with It: Texas' Never Ending Hail Problem**

Insurance Journal - 07/6/2018

in a given area to help consumers prepare for bad weather events through targeted education campaigns. For instance, customers in hail-prone

### **Tiny fine particles of global impact -- radiocarbon reveals the origin of black carbon**

ScienceDaily - 07/5/2018

a sub-project of a consortium led by the Finnish Meteorological Institute, with funding provided by the Academy of Finland. Story Source:

### **UN humanitarian chief mission to Haiti and Panama at start of hurricane season**

ReliefWeb - 07/5/2018

On 6 July, the Emergency Relief Coordinator will brief UN member states in New York on hurricane preparedness efforts in the region. ENDS

### **A bird's eye view of the Arctic**

ScienceDaily - 07/5/2018

Aerial Capability for Atmospheric Research in Arctic Alaska. Bulletin of the American Meteorological Society, 2018; 99 (6): 1197 DOI: 10.

### **Tides – One of the Most Reliable Occurrences on the Planet**

Weather Nation - 07/5/2018

### **Air pollution may account for 1 in 7 new diabetes cases**

Reuters - 07/5/2018

PM 2.5 is the mix of solid fragments and liquid droplets suspended in air that's sometimes visible to human eyes as haze.

### **How Many Water Droplets Are in a Cloud?**

Eos - Earth and Space Science News - 07/5/2018

The number of droplets in clouds affects how much of the Sun's warming energy is reflected back to space. But how reliable are our attempts to count them?

### **Southern California is losing its protective A.M. clouds**

Futurity.org - 07/5/2018

Decreasing coastal cloud cover in Southern California increases the chance of bigger and more intense wildfires, research shows.

### **Greenhouse gas cooled the Eocene 'hothouse' period**

Futurity.org - 07/5/2018

Greenhouse gases were the main driver of climate throughout the warmest period of the past 66 million years, according to a new study that offers clues about the future of climate change.

### **Global warming varies greatly depending where you live**

Eyewitness News - 07/5/2018

Different parts of the world respond in different ways to warming from increasing greenhouse gas concentrations.

### **Summer Heat Waves Break Records Across Northern Hemisphere**

EcoWatch - 07/5/2018

things are going to be hotter, wetter and wilder," University of Waterloo climate scientist Blair Feltmate told Global News. "It's not any

### **2018 has been full of weird weather so far**

Popular Science - 07/5/2018

the Arctic could be destabilizing wind patterns and contributing to intense winter storms in the Northeast. Regardless, climate change will

### **Tsunamis teach importance of inclusion**

ReliefWeb - 07/4/2018

Director, HelpAge International pointed out how 57% of the casualties of the 2011 tsunami in Japan were over 60 – more than twice their

### **In a warming world, could air conditioning make things worse?**

ScienceDaily - 07/3/2018

today (July 3, 2018) in a special climate change issue of the journal Public Library of Science (PLOS) Medicine, a team of researchers from

### **A dire warning about global warming ... in 1958 show produced by Frank Capra**

NOLA.com - 07/3/2018

instrument packages called dropsondes from planes into the center of a hurricane to measure key features needed to forecast its strength and

### **Fighting Climate Change Means Fighting Inequality And Intolerance**

The Huffington Post - 07/3/2018

Marshall Shepherd, the second African-American President of the American Meteorological Society (AMS), recounted in Forbes how critical of

### **Climate Change Is Making Nighttime Clouds More Visible**

Yale Environment 360 - 07/3/2018

Noctilucent clouds form only in the summertime and are only visible at dawn and dusk.

### **Earth's first animals probably triggered a change in climate**

Popular Science - 07/3/2018

Of course, they warmed things up over millions of years, not a couple hundred.

**Behind the Front:**

WBRC FOX6 News - 07/3/2018

Ep. 1 - Storm Anxiety Ep. 2 - False Alarms Ep. 3 - Forecasting Fears Ep. 4 - April 27th Tornadoes  
Ep. 5 - Warning Sirens Ep. 6 - Tornado Paths

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My latest WeatherEyes from John Maunder

<https://www.sunlive.co.nz/blogs/12260-tauranga-june-average-afternoon-temperatures-19132018.html>

<https://www.sunlive.co.nz/blogs/12233-tauranga-june-rainfalls-18982018.html>

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