

## New Zealand weather and climate news

### *MetService focus*

#### **Wild weather: Severe rain warnings after flooding overnight**

MetService meteorologist Karl Loots said a narrow rain band that moved over the North Island was responsible for heavy downpours that caused flooding in parts of Wellington overnight.

[https://www.nzherald.co.nz/nz/news/article.cfm?c\\_id=1&objectid=12085521](https://www.nzherald.co.nz/nz/news/article.cfm?c_id=1&objectid=12085521)

#### **Brace yourself for more wild wet weather across New Zealand**

MetService had issued several wind or rain warnings for overnight Sunday. By 5am Monday they were mostly "on their last legs" but there was still a rain warning for the Tararua Range during Monday, MetService meteorologist Karl Loots said.

<https://www.stuff.co.nz/national/105332561/brace-yourself-for-more-wild-wet-weather-across-new-zealand>

#### **Working Men's Club in Petone flooded after heavy Wellington rain**

Earlier in the day, MetService meteorologist April Clark said there would be severe north to northwesterlies up to 140kmh in the capital.

<https://www.stuff.co.nz/national/105324555/severe-weather-for-wellington-as-metservice-predict-140kmph-gusts>

#### **MetService issues weather warnings for Taranaki**

Metservice meteorologist April Clark said when the front hit the Wellington region heavy rain was likely to follow.

In Taranaki they were predicting similar conditions as the same front passed over, she said.

<https://www.stuff.co.nz/taranaki-daily-news/news/105316674/metservice-issues-weather-warnings-for-taranaki>

#### **Your weather: Stormy weekend could lead to 3m of snow in alps, 'high' avalanche risk**

MetService meteorologist Lisa Murray said the front would be slowly moving up the country Saturday and through the weekend, bringing a prolonged period of heavy rain, falling as snow above the freezing level. It was also bringing strong, gusty winds.

[https://www.nzherald.co.nz/nz/news/article.cfm?c\\_id=1&objectid=12083933](https://www.nzherald.co.nz/nz/news/article.cfm?c_id=1&objectid=12083933)

### **Hawke's Bay looks to have best of the weekend weather**

MetService meteorologist Lisa Murray said a front would be slowly moving up the country today and tomorrow, also bringing strong, gusty winds, which could lead to a gale warning for the Wairarapa and Southern Hawke's Bay coast.

[https://www.nzherald.co.nz/hawkes-bay-today/news/article.cfm?c\\_id=1503462&objectid=12084526](https://www.nzherald.co.nz/hawkes-bay-today/news/article.cfm?c_id=1503462&objectid=12084526)

### **Weather extremes predicted to be new frontline for New Zealand Defence Force**

Cyclones and other violent weather extremes are predicted to be the new frontline for New Zealand's defence forces.

<https://www.tvnz.co.nz/one-news/new-zealand/weather-extremes-predicted-new-frontline-zealand-defence-force-v1>

### **Clement weather propels Orion's record result**

Settled weather was a contributor to a record annual profit for electricity lines company, Orion New Zealand, which will deliver its owner, Christchurch City Council, a \$55 million dividend.

<https://www.stuff.co.nz/business/105228296/clement-weather-propels-orions-record-result>

### ***MetOcean***

### **Coastal nuisance flooding linked to special type of slow-moving ocean wave**

A team of international researchers has found a link between seasonal fluctuations in sea level to a long-time phenomenon -- Rossby Waves. And this connection may lead to a new tool to help.

<https://www.sciencedaily.com/releases/2018/07/180705125718.htm>

### **Global warming may be twice what climate models predict**

Future global warming may eventually be twice as warm as projected by climate models under business-as-usual scenarios and even if the world meets the 2°C target sea levels may rise six meters or more, according to an international team of researchers from 17 countries.

<https://www.sciencedaily.com/releases/2018/07/180705110027.htm>

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

### **Rising disaster risk but little insurance interest in Pacific islands**

Limited take-up so far is linked to small island nations' reluctance to foot the bill for the effects of climate change, says insurance expert

<http://news.trust.org/item/20180629000109-4q8sn/>

### **Multi-million dollar flood protection project for Samoa**

Samoa's government has begun work on a multi-million dollar project it hopes will protect 18 vulnerable communities from flooding.

<http://www.radionz.co.nz/international/pacific-news/361282/multi-million-dollar-flood-protection-project-for-samoa>

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

Lightning strikes kill more than floods, cyclones; cities under increasing threat

The average number of people who died of lightning strikes every year between 2006-2015 was about 50% higher than the decade before. Climate change is leading to extreme weather and lightning is getting more frequent and intense.

<https://www.hindustantimes.com/india-news/lightning-kills-more-than-floods-cyclones/story-jllfxMM7CIKDKFXZp2wajP.html>

### **At least 85 dead, many missing as 'historic' rains pound Japan**

At least 85 people have died and 58 are unaccounted for as torrential rains continued to batter parts of western Japan, causing landslides and flooding and forcing millions of people from their homes.

[https://www.nzherald.co.nz/world/news/article.cfm?c\\_id=2&objectid=12085537](https://www.nzherald.co.nz/world/news/article.cfm?c_id=2&objectid=12085537)

### **Super Typhoon Maria to threaten lives and property on Japan's Ryukyu Islands, Taiwan, eastern China this week**

Maria is expected to threaten lives and property when it barrels across Japan's Ryukyu Islands, Taiwan and eastern China as a dangerous typhoon Tuesday through Thursday.

<https://www.accuweather.com/en/weather-news/super-typhoon-maria-to-threaten-lives-and-property-on-japans-ryukyu-islands-eastern-china-next-week/70005416>

### **'Mosquito infestation' forecast service now available in China**

(ECNS) - Jiangsu Meteorological Service Center and China Weather Network ([www.weather.com.cn](http://www.weather.com.cn)) have launched a location-based “mosquito infestation” forecast, with four levels ranging from “fewer” to “normal”, “many” and “a lot”.

<http://www.ecns.cn/news/cns-wire/2018-07-05/detail-ifyvvuhv1809492.shtml>

### **China donates meteorological equipment to Namibia**

WINDHOEK, July 5 (Xinhua) -- Meteorological equipment worth 2.4 million U.S. dollars donated by China were handed over to Namibia at an event here on Thursday.

[http://www.xinhuanet.com/english/2018-07/06/c\\_137304323.htm](http://www.xinhuanet.com/english/2018-07/06/c_137304323.htm)

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

#### **Tropical Storm Chris forms off the Carolinas, generating dangerous surf**

Chris, the third storm of the 2018 Atlantic hurricane season, was named today as it gained strength off the coast of the Carolinas.

[https://www.nzherald.co.nz/world/news/article.cfm?c\\_id=2&objectid=12085522](https://www.nzherald.co.nz/world/news/article.cfm?c_id=2&objectid=12085522)

#### **At least 54 heat-related deaths in Quebec as hot spell comes to an end**

28 of those deaths were in Montreal, according to health officials

<https://www.cbc.ca/news/canada/montreal/quebec-heat-wave-ending-1.4736509?cmp=rss>

#### **Lightning should not be taken lightly: 3 struck, killed last week in US**

Lightning from average thunderstorms continues to be a significant risk to lives this summer.

Thunderstorms do not have to be severe to produce cloud to ground lightning strikes.

<https://www.accuweather.com/en/weather-news/lightning-should-not-be-taken-lightly-2-struck-killed-on-friday-in-us/70005425>

### **International news and research**

## **The 'Blood Rain' in Siberia Was Probably Caused by a Bunch of Industrial Garbage**

Siberia: It's Russia's largest and arguably weirdest geographic region. It is a place where bricks of gold drop from the sky and severed human hands sprout out of the snow like turnips. And sometimes, it also seems to rain blood there.

<https://www.livescience.com/61972-bag-of-severed-hands-siberia.html>

## **New Tools Could Better Predict Life-Threatening Storms**

BOSTON (CBS) – Meteorologists and scientists from around the country are participating in ground-breaking research at the National Weather Centre in Norman, OK. This is research that will likely save lives in the not too distant future.

<https://boston.cbslocal.com/2018/07/06/national-weather-service-technology-pamela-gardner/>

## **Weather Technology To Outpace Storms**

Climate change research predicts that we may experience more extreme weather. As the planet warms, increased water evaporation could drive wilder weather, increasing storm frequency and/or intensity. With sophisticated weather technology, climate scientists aim to handle these changes through better prediction or even by manipulating storms before they wreak havoc. More precise data is needed as weather prediction improves, which is why weather technology is looking to space with tools such as satellites and other eye-in-the-sky capabilities.

<http://now.northropgrumman.com/weather-technology-to-outpace-storms/>

## **Business development / commodities / infrastructure etc**

### **Philippines a big opportunity for NZ businesses — FinTech entrepreneur**

New Zealand entrepreneur Rachel Strevens says the Philippines presents a huge export opportunity for Kiwi businesses, but few are tapping into the country's potential.

<http://www.scoop.co.nz/stories/BU1807/S00195/philippines-a-big-opportunity-for-nz-businesses.htm>

### **Three new strategic science platforms announced**

The Ministry of Business, Innovation and Employment (MBIE) today announced \$35.4 million over six years for three new strategic science platforms undertaking research to improve the performance of New Zealand's seafood, shellfish aquaculture, and hide and skin processing industries.

<http://www.scoop.co.nz/stories/SC1807/S00019/three-new-strategic-science-platforms-announced.htm>

### **\$72m April Storm Shows Need For Adaptation**

The April storm that swept New Zealand and cut power for days for thousands of Aucklanders has resulted in more than 13,000 claims costing more than \$72m, the Insurance Council of New Zealand reported today.

<https://management.co.nz/news/72m-april-storm-shows-need-adaptation>

### **Greggs threatened by climate change**

Climate change could be hurting sales growth at Greggs.

Recent extremes of hot and cold weather have triggered four profit warnings and created volatility in Greggs' stock price, according to Barclays.

Data from the Met Office show Britain is getting hotter and rainier as the years go by.

<https://www.businessinsider.com.au/climate-change-sales-greggs-britain-2018-7?r=US&IR=T>

### **Innovation and technologies (inc data and new products)**

#### **New Software Released for Tracking Seasonal Forecasts**

Site specific seasonal forecasts updated every ten days and easily interpreted with new viewer Hamilton, New Zealand, 5 July 2018. The CLIMsystems Ltd subsidiary ExtendWeather has just released an important update to its ExtendWeather Viewer software. The updated program was developed to simplify the accessing, viewing, interpretation and sharing of the latest seasonal forecast information.

<http://www.scoop.co.nz/stories/SC1807/S00015/new-software-released-for-tracking-seasonal-forecasts.htm>

### **Citizen science / crowd sourcing**

#### **The DRAW Project: Delving into Montreal's weather history**

Step aside, Old Weather, eBird, and Galaxy Zoo—there's a new citizen science project on the block, and its name is DRAW.

DRAW, which stands for Data Rescue: Archives and Weather, allows anyone to explore Montreal's weather history and contribute to important scientific research. And to make the project even more exciting, McGill has the longest continuous series of weather observatory records in Canada, with ledgers dating back to 1863.

<http://www.mcgilltribune.com/sci-tech/3522559-180706/>

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

#### **James Renwick: Real climate facts there, if wanted**

The opinion piece written by Dave Hill - "Let's get the facts on climate change", published in the Chronicle on Tuesday - is a classic of misdirection.

He begins by pointing out that the climate has always changed. Absolutely right, meaning that the climate is sensitive to changes in sunlight and to changes in greenhouse gases.

[https://www.nzherald.co.nz/climate-change/news/article.cfm?c\\_id=26&objectid=12084156&ref=rss](https://www.nzherald.co.nz/climate-change/news/article.cfm?c_id=26&objectid=12084156&ref=rss)

### **Journals online**

#### **CMOS Bulletin SCMO**

Vol.46 No.2, April 2018

Written by [CMOS Bulletin SCMO](#) on April 24, 2018. Posted in [Past Issues](#).

In this issue (Vol.46 No.2) of the CMOS Bulletin, you will find an article from Health Canada researchers that takes an important look at the issue of climate change impacts on mental health, and opportunities to address emerging climate change risks to the health of Canadians through new collaborations. John Gilbert shares stories of (mis)adventure from the early days of the Eureka Weather Station in Canada's far North, as the station celebrates its 70th birthday. Environment and Climate Change Canada's seasonal outlook for the spring is included, as is a touching tribute to the scientific life of CMOS member and leading meteorologist Dr. Philip Merilees who passed away peacefully in early March after a long life and successful career. Richard Leduc shares his review of the book "Weather: A Very Short Introduction" by Storm Dunlop. Several smaller news items, member's updates, and event notifications are also included.

[Download Here](#)

### **Weather**

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The latest issue of Weather is available on [Wiley Online Library](#)

Cover Information

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In this issue of Weather (page E1)

Jim Galvin

Version of Record online: 3 JUL 2018 | DOI: 10.1002/wea.3373

Weather news (pages 206–207)

Version of Record online: 3 JUL 2018 | DOI: 10.1002/wea.3131

Research Article

The August 2015 mega-heatwave in Poland in the context of past events (pages 207–214)

Agnieszka Krzyżewska and Jamie Dyer

Version of Record online: 18 MAY 2018 | DOI: 10.1002/wea.3244

2-m temperature (shaded; °C), mean sea level pressure (MSLP; solid lines; hPa), and 10-m winds (barbs; ms-1) at 1200 utc (1300 lst) during the maximum of the mega-heatwave.

Viewpoint

Rare, anomalous non-transient lights associated with cumulonimbus clouds (pages 215–216)

Rodney B. Hale

Version of Record online: 17 APR 2018 | DOI: 10.1002/wea.3247

Letters

Letters (page 217)

Paul R. Brown

Version of Record online: 3 APR 2018 | DOI: 10.1002/wea.3228

Letters (page 217)

Malcolm Hough

Version of Record online: 30 MAR 2018 | DOI: 10.1002/wea.3233

Book reviews

[Book review \(page 218\)](#)

Version of Record online: 18 JAN 2018 | DOI: 10.1002/wea.3093

[Book review \(page 219\)](#)

Version of Record online: 14 APR 2018 | DOI: 10.1002/wea.3236

Weather images

[Weather images \(page 220\)](#)

Version of Record online: 3 JUL 2018 | DOI: 10.1002/wea.3134

Weather log

[May 2018 Warm and very sunny. Many places dry, but thundery downpours in south in closing days. \(pages i–iv\)](#)

Version of Record online: 3 JUL 2018 | DOI: 10.1002/wea.3133

Seasonal Weather Summary

[UK seasonal weather summary Spring 2018 \(page 221\)](#)

National Climate Information Centre

Version of Record online: 3 JUL 2018 | DOI: 10.1002/wea.3301

Research Articles

[Open-source tool for interactive digitisation of pluviograph strip charts \(pages 222–226\)](#)

Nejc Sušin and Peter Peer

Version of Record online: 9 OCT 2017 | DOI: 10.1002/wea.3001

A free and open-source application was developed to aid in digitisation of pluviograph paper strip charts. It automatically processes scanned images of charts and allows users to manually correct any errors, therefore assuring greater speed and accuracy when reading charts in different formats. This paper documents how the program works, the results it gives and the underlying problem itself.

[The first complete dropsonde observation of a tropical cyclone over the South China Sea by the Hong Kong Observatory \(pages 227–234\)](#)

P.W. Chan, N.G. Wu, C.Z. Zhang, W.J. Deng and K.K. Hon

Version of Record online: 8 FEB 2018 | DOI: 10.1002/wea.3095

Inside Cover Photographs

A beautiful scene of rainbows and hailcores from a supercell storm (page E2)

Version of Record online: 3 JUL 2018 | DOI: 10.1002/wea.3298

After chasing a storm near Muleshoe, Texas, USA (page E3)

Version of Record online: 3 JUL 2018 | DOI: 10.1002/wea.3299

A wall of cumulus congestus and cumulonimbus forming over the foothills of the Alps (page E4)

Version of Record online: 3 JUL 2018 | DOI: 10.1002/wea.3300

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