

## New Zealand weather and climate news

*courtesy of MetService library*

### MetService mentions

#### Heat wave likely in Rotorua, Tauranga attempting to save water

New Zealand Herald

MetService meteorologist Kyle Lee said in New Zealand a heat wave has been defined as five consecutive days where a place reaches five degrees ...

#### School scorcher: Monday to Friday will be 30C-plus in Hawke's Bay, just as classes return

New Zealand Herald

A MetService spokesman said the temperatures were around 4C higher than the monthly average, but it was not unusual to have extended periods of ...

#### The big dry could be on its way in Timaru

Stuff.co.nz

As students begin to head back to school, Timaru's fine weather shows little sign of abating, the MetService says. On Saturday, Timaru bathed in ...

#### Time to make a splash: mercury to soar to 30C this Auckland long weekend

New Zealand Herald

"There is plenty of hot weather to go around as temperatures push into the 30s across the country this weekend," MetService said. "If you're in the ...

#### Running dry: Steep rise in costs to fill water tanks in drought-hit Coromandel

Drought conditions in the Coromandel are pushing up the cost of filling private water tanks, and some holidaymakers have been running dry.

#### Summer swelter: Weather watchers warn of high temperatures, fire risks this weekend

Stuff.co.nz

It's time to get the togs out as much of the country is set to bake in sweltering temperatures this weekend. MetService says temperatures are expected ...

Christchurch set to sizzle in summer scorcher

Stuff.co.nz

Metservice forecaster Paul Ngamanu said a westerly flow would bring warm ... Moving into the start of next week, Metservice was forecasting 30C on ...

MetService meteorologist explains sweltering temperatures in some parts of New Zealand

TVNZ

MetService meteorologist explains sweltering temperatures in some parts of New Zealand. now • Source: Breakfast ...

Lack of rainfall causes fire risk in Mid and South Canterbury

Stuff.co.nz

The rest of Canterbury has been in a prohibited fire season since the middle of November. MetService communications meteorologist Lewis Ferris ...

## **MetOcean**

Weather service available with limited internet

The Triton

Weather Routing Inc., a marine meteorological consulting firm based in Glen Falls, New York, recently launched OnBoard, a software program that ...

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

'Close your doors': NSW's power at capacity as Sydney hits 43C

NEWS.com.au

ALERT: weather conditions, fire damage to transmission & mechanical ... The government is advising people reduce electricity demand for a few hours ...

Tropical Disturbance develops near Samoa

Matangi Tonga

Global weather models still predict a Neutral state of the El-Nino Southern Oscillation (ENSO), but the likelihood for an El Nino event to start is now a ...

#### New Caledonia records windy 2019

Weather records for New Caledonia show that 2019 was unusually windy and dry, but not very hot.

Meteo France said on 64 days of the year winds exceeded 20 knots which is an all-time record.

#### Tuvalu to declare state of emergency after Cyclone Tino

Tuvalu's government has given its approval for a state of emergency to be declared in the country with rough seas still hampering disaster authorities efforts to assess damage caused by Cyclone Tino.

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

#### New weather forecasting system in place to better handle flash floods: PUB

The Straits Times

... Soon said: "In anticipation of more frequent extreme weather events due to climate change, we are tapping technology to make sure that our officers ...

#### UAE to spend \$136.1 mln on infrastructure after floods

Thomson Reuters Foundation

The UAE has carried out at least 17 cloud seeding flights this month, according to local media. (\$1=3.6728 UAE dirhams) (Reporting by Alexander ...

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

#### Brazil floods: Dozens dead in severe rainstorms

Many of the victims were buried in landslides or washed away in floods after intense rain on Friday and Saturday.

More than 2500 people were evacuated from their homes, and local TV showed images of ruined houses under red mud.

### **International news and research**

#### A simple way to predict tropical cyclones undergoing rapid intensification

Phys.Org

This old weather proverb originates from fishermen who found colors and shapes in clouds at sunset could predict an incoming storm. ... Hainan Key Laboratory of South China Sea Meteorological Disaster Prevention and Mitigation, ...

#### What's The Difference Between Private Weather Companies And The National Weather Service?

Forbes

Weather plays a significant role in business. It impacts the U.S. gross national product by approximately \$1 trillion each year, and weather information ...

#### Australian bushfires help push forecast 2020 CO<sub>2</sub> rise

A forecast of the atmospheric concentration of carbon-dioxide shows that 2020 will witness one of the largest annual rises in concentration since measurements began at Mauna Loa, in Hawaii, 1958.

#### Acting NOAA leader stresses importance of public-private partnerships

### **SpaceNews**

... has evolved from providing value-added services based on NOAA data to partners in his agency's core missions, such as weather forecasting.

#### Could A Helium Shortage Degrade Weather Forecasts?

Forbes

Vertical measurement of atmospheric data is called a sounding. ... For an excellent primer on weather forecasting, I highly recommend the discussion ...

Here's what snow 'sounds' like at different temperatures

The Weather Network

Tuesday, January 21st 2020, 4:29 pm - Snow sounds differently, according to the temperature. Don't believe us? Check out the video below.

### **Advertising/promotion**

Aki Technologies acquires Eyeview's video ad personalisation IP

MobileMarketing Magazine

Aki Technologies acquires Eyeview's video ad personalisation IP ... brick-and-mortar location to influence in-store sales of the weather-targeted ...

### **Satellites and radar**

ESA's Aeolus Now Providing Daily Meteorological Data

SpaceWatch.Global (press release) (blog)

It is extremely unusual for a completely new type of satellite data to be ready for ... contribute to climate research and also improve weather forecasting.

### **Innovation and technologies and AI**

Contact lenses to display weather, maps in front of you

Arkansas Democrat-Gazette (blog)

... will also display weather information, a map, heart rate, blood sugar and other information floating in the air before the user's eye, the company says.

### **Weather in pictures**

## 'Awesome' warrior queen Boudicca seen in Norfolk clouds

A photograph of a cloud formation resembling the East Anglian warrior queen Boudicca has been described as "awesome", by a weather expert.

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

### Climate risk and response: Physical hazards and socioeconomic impacts

How could Earth's changing climate impact socioeconomic systems across the world in the next three decades? A yearlong, cross-disciplinary research effort at McKinsey & Company provides some answers.

### Climate change will displace millions. Here's how we prepare

Scientists predict climate change will displace more than 180 million people by 2100 -- a crisis of "climate migration" the world isn't ready for, says disaster recovery lawyer and Louisiana native Colette Pichon Battle. In this passionate, lyrical talk, she urges us to radically restructure the economic and social systems that are driving climate migration -- and caused it in the first place -- and shares how we can cultivate collective resilience, better prepare before disaster strikes and advance human rights for all.

## **Journal and articles online**

### **Welcome to the Bulletin of the Canadian Meteorological and Oceanographic Society**

In this issue (Vol.47 No.6) of the **CMOS Bulletin**, we share the always anticipated Canada's Top Ten Weather Stories (of 2019) by David Phillips. James Drummond's story of the Measurements of Pollution in the Troposphere (MOPITT) Project, now celebrating its 20th anniversary in orbit, is sure to warm an atmospheric researcher's heart! Marko Markovic and his colleagues from Environment and Climate Change Canada provide the forecast for our winter season. Marko also includes an important piece of work conducted with the Arctic Regional Climate Centre (ArcRCC) – their consensus statement for temperature in the Arctic. These consensus statements provide a review of the major climate trends of the previous season, and outlooks for the upcoming season. Jeannine-Marie St-Jacques gives us a summary of her paper recently published in Atmosphere-Ocean “Searching towards creating a sustainable integrated mesonet for the Canadian Prairie Provinces”. We also include several items of interest to members, including the calls for nominations for CMOS fellowships and awards, our congratulations to some significant scientific awards for CMOS members including the Order of Canada for Robie Macdonald and Eddy Carmack, books available for review, and more.

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