

New Zealand weather and climate news

Following clips are courtesy of MetService

MetService

Four seasons in one day: What it's like to be the face of NZ's other national obsession

Being able to deliver the types of information people want about the weather is Lisa Murray's bread and butter.

As communications meteorologist for MetService, Murray is paid to talk about the climate and explain to the public and the press about what it all means.

<https://www.stuff.co.nz/national/104262337/aside-from-rugby-could-the-weather-be-new-zealands-other-national-obsession>

Another bout of severe weather headed for east, north North Island

"It's going to pick up later today," MetService meteorologist Mark Todd said. "It is a significant system and it's going to bring another bout of severe weather to the upper North Island.

<https://www.stuff.co.nz/national/104602349/another-bout-of-severe-weather-headed-for-east-north-north-island>

Crank up the mower: Weekend weather set to shine in North Island; not so good in South Island,

Stow that book and get out for some sun - it's going to be a beauty of a weekend even if a bit nippy in the mornings.

"Taupo north, from [today] onwards is really beautiful," said MetService meteorologist Ravi Kendula.

https://www.nzherald.co.nz/nz/news/article.cfm?c_id=1&objectid=12067226

Extreme weather (and other news) – Australia and Pacific

How bad is the drought and why has it been so dry?

This autumn has been the fourth-warmest on record in Australia, with below average rainfall for most of the country, according to the Bureau of Meteorology's autumn summary.

<http://www.abc.net.au/news/2018-06-11/drought-how-bad-is-it-and-why-has-it-been-so-dry/9826130>

CPSU accuses BoM of gagging workers after pay dispute messages deleted

The union representing Bureau of Meteorology workers has accused the weather office of gagging employees after they drew attention to a pay freeze in social media posts.

<http://www.abc.net.au/news/2018-06-08/bom-workers-messages-about-pay-dispute-deleted/9851138>

Climate change-related disaster relief is increasing demand on Defence Department, Senate hears

The Department of Defence has spelled out clearly to a Senate enquiry that climate change is increasing demand and will create "concurrency pressures" for the Australian Defence Force as a rise in disaster relief operations continues.

<http://www.abc.net.au/news/2018-06-08/adf-sees-climate-change-related-disaster-relief-demands-rise/9842458>

Australian tornadoes flying under the radar but more common than you think, BOM warns

They're quick, ferocious and hard to predict.

Tornadoes, while often associated with the Great Plains of the United States, are more common in Australia than people might think.

<http://www.abc.net.au/news/2018-06-08/australian-tornadoes-hard-to-predict-live-fast-die-young/9846834>

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

'IMD prediction accurate, but info flow weak'

NEW DELHI: Facing criticism over not giving adequate information of recent dust and thunder storms, the ministry of earth sciences on Thursday admitted that there was an issue in disseminating the information but the country's national weather forecaster, India Meteorological Department (IMD), predicted the extreme weather events three days in advance.

<https://timesofindia.indiatimes.com/india/imd-prediction-accurate-but-info-flow-weak/articleshow/64501091.cms>

Dissemination of information on weather warnings needs to be improved: MoES official

New Delhi, Jun 7 (PTI) There is an "issue" in reaching out to people in regard to extreme weather warnings and dissemination of information needs to be improved, a top official of the Ministry of Earth Sciences (MoES) said today.

<https://www.indiatoday.in/pti-feed/story/dissemination-of-information-on-weather-warnings-needs-to-be-improved-moes-official-1253108-2018-06-07>

Severe Tropical Storm Maliksi to deliver glancing blow to Japan this week

Severe Tropical Storm Maliksi will deliver a glancing blow to Japan early this week as it passes near the country.

The Philippine government first declared that the tropical disturbance had become Tropical Depression Domeng on Tuesday.

<https://www.accuweather.com/en/weather-news/budding-tropical-cyclone-to-threaten-philippines-with-flooding-downpours-this-week/70005144>

Extreme weather (and other news) – Americas and Europe

Flash-floods warning for Northern Ireland as torrential rain set to sweep in

A yellow weather warning is in place today as a storm is predicted to end a week of glorious weather.

<https://www.belfasttelegraph.co.uk/news/northern-ireland/flashfloods-warning-for-northern-ireland-as-torrential-rain-set-to-sweep-in-36991117.html>

International news and research

Extending forecasts of global river flow out to seasonal timescales

My PhD research at the University of Reading and ECMWF looks into how we can provide earlier indications of flood hazard at the global scale. One way of doing this is through seasonal forecasts of high (or low) river flow. Seasonal forecasts are designed to provide an early indication that a given variable, such as temperature, rainfall or even river flow, will differ from normal in the coming weeks or months.

<https://www.ecmwf.int/en/about/media-centre/science-blog/2018/extending-forecasts-global-river-flow-out-seasonal>

ECMWF Model Upgrade Improves Extended-Range Weather Forecasts

A wide-ranging upgrade of ECMWF's Integrated Forecasting System (IFS), implemented on 5 June 2018, brings better global weather forecasts, with particularly consistent gains in the extended range. A key plank of the upgrade is enhanced dynamic coupling between the ocean, sea ice and the atmosphere.

<https://www.prnewswire.com/news-releases/ecmwf-model-upgrade-improves-extended-range-weather-forecasts-684664931.html>

FAA Developing Non-Radar Weather Tracking

The FAA is continuing to develop and expand its Offshore Precipitation Capability (OPC) system, which uses machine learning and image processing to estimate precipitation intensity and echo top heights in areas where Next Generation

Radar (NEXRAD) is not available. While not as precise as radar in identifying the location and intensity of precipitation—although with greater than 90-percent accuracy it's close—OPC is a significant step up on simply relying on satellite imagery in areas not covered by radar.

<https://www.avweb.com/avwebflash/news/FAA-Developing-Non-Radar-Weather-Tracking-230947-1.html>

WMO

WMO and WHO tackle health impacts of pollution, extreme weather, climate change

GENEVA, 31 May 2018 - In the face of growing health impacts from extreme weather, climate change and air pollution, the World Meteorological Organization (WMO) and World Health Organization (WHO) have agreed to step up joint action to tackle environmental health risks that cause an estimated 12.6 million premature deaths every year.

[Read more here](#)

Business development / commodities / infrastructure etc

How we'll control the weather in 100 years

Climate change can cause dramatic shifts in global temperatures and weather patterns. And while scientists won't be able to reverse all of the negative impacts of these changes, they are looking for ways to lessen the effects by controlling the weather. Following is a transcript of the video.

<http://uk.businessinsider.com/controlling-weather-in-future-2018-5/?r=AU&IR=T>

Zurich: "Building back better" can mitigate weather-related losses

Zurich has published a new report that looks into the company's most recent catastrophe reviews to find better ways to reduce weather-related risks.

<https://www.insurancebusinessmag.com/us/news/risk-management/zurich-building-back-better-can-mitigate-weatherrelated-losses-102750.aspx>

Climate change / global warming / sea level rise

NZ's bold new climate bill: four big ways it matters

Bold legislation to drive emissions down to zero would come with massive implications - ranging from slower-growing household incomes to major impacts on industry.

https://www.nzherald.co.nz/climate-change/news/article.cfm?c_id=26&objectid=12066123&ref=rss

Climate change threat needs Pacific voice

Fiji's chief climate negotiator says its important for the global community to hear from directly Pacific people facing the impact of climate change.

<https://www.radionz.co.nz/international/pacific-news/359204/climate-change-threat-needs-pacific-voice>

A bird's eye view of New Zealand's changing glaciers

Every March, glacier "watchers" take to the skies to photograph snow and ice clinging to high peaks along the length of New Zealand's Southern Alps.

This flight needs to happen on cloud-free and windless days at the end of summer before new snow paints the glaciers white, obscuring their surface features.

<https://theconversation.com/a-birds-eye-view-of-new-zealands-changing-glaciers-97074>

Journals online

Journal of Applied Meteorology and Climatology - Volume: 57, Number: 5 (May 2018)

EDITORIAL

AMS Journals Welcome Review Articles

David M. Schultz, Timothy M. DelSole, Robert M. Rauber, and Walter A. Robinson

ARTICLES

Polarimetric Observations of Chaff Using the WSR-88D Network

James M. Kurdzo, Earle R. Williams, David J. Smalley, Betty J. Bennett, David C. Patterson, Mark S. Veillette, and Michael F. Donovan

Atmospheric Dynamics and Ozone Cycle during Sea Breeze in a Mediterranean Complex Urbanized Coastal Site

Sandro Finardi, Giuseppe Agrillo, Rita Baraldi, Giuseppe Calori, Pantaleone Carlucci, Paolo Ciccioli, Alessio D'Allura, Daniele Gasbarra, Beniamino Gioli, Vincenzo Magliulo, Paola Radice, Piero Toscano, and Alessandro Zaldei

On the Need to Modify the Sea Surface Roughness Formulation over Shallow Waters

Pedro A. Jiménez and Jimy Dudhia

Sources of Bias in the Monthly CFSv2 Forecast Climatology

Michael K. Tippett, Laurie Trenary, Timothy DelSole, Kathleen Pegion, and Michelle L. L'Heureux

Simulating Extreme Etesians over the Aegean and Implications for Wind Energy Production in Southeastern Europe

Stella Dafka, Andrea Toreti, Juerg Luterbacher, Prodromos Zanis, Evangelos Tyrllis, and Elena Xoplaki

Evaluation and Postprocessing of Ensemble Fire Weather Predictions over the Northeast United States

Michael J. Erickson, Brian A. Colle, and Joseph J. Charney

Long-Term Observations and High-Resolution Modeling of Midlatitude Nocturnal Boundary Layer Processes Connected to Low-Level Jets

Tobias Marke, Susanne Crewell, Vera Schemann, Jan H. Schween, and Minttu Tuononen

Daily Weather Types in February–June (1979–2016) and Temperature Variations in Tropical North Africa

Vincent Moron, Boutheina Oueslati, Benjamin Pohl, and Serge Janicot

Application of the Generalized Gamma Model to Represent the Full Rain Drop Size Distribution Spectra

Merhala Thurai and V. N. Bringi

Ocean–Atmosphere Feedback during Extreme Rainfall Events in Eastern Northeast Brazil

Thiago Luiz do Vale Silva, Doris Veleda, Moacyr Araujo, and Pedro Tyaquiçã

Intercomparison of Surface Temperatures from AIRS, MERRA, and MERRA-2 with NOAA and GC-Net Weather Stations at Summit, Greenland

Thomas J. Hearty, Jae N. Lee, Dong L. Wu, Richard Cullather, John M. Blaisdell, Joel Susskind, and Sophie M. J. Nowicki

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John Maunder: My latest WeatherEye

<https://www.sunlive.co.nz/blogs/12177-auranga-may-average-afternoon-temperatures-19132018.html>

<https://www.sunlive.co.nz/blogs/12147-auranga-may-rainfalls-18982018.html>

<https://www.sunlive.co.nz/blogs/12123-tropospheric-temperatures-1979-to-april-2018.html>

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