

New Zealand weather and climate news

These clips come Courtesy of MetService Library

(MetService focus)

Coromandel Peninsula flooding: Highways remain closed after downpours

Stuff.co.nz

... business as usual by daylight tomorrow." People are asked to check-in on their neighbours once the weather has eased and make sure they are ok.

Coromandel flooding: properties damaged, cows swept to sea, sheep drowned

As floodwater recedes, Garrick Simpson plans to scour the coastline for his missing cows and bury a friend's flock of drowned sheep.

Spring welcomes thunderstorms, snow and 'chunky cloud' to New Zealand

Stuff.co.nz

Metservice meteorologist Tuporo Marsters said an active front was crossing the top of the country, bringing rain to much of the North Island, including ...

Weird weather: Sprin-ter: Why NZ's in for a miserable few months

New Zealand Herald

On top of that, MetService said the weather system sweeping in from the Tasman this weekend had also collected smoke and dust from bushfires in ...

Whanganui one of six unusually warm places during August

New Zealand Herald

Whanganui's daytime temperatures never dropped below 11C in August, MetService meteorologist Rob Kerr said. The lowest daytime temperature ...

Snow risk to North Island high routes; temperatures plummet in south

"We have quite a cold flow of air from the deep south at the moment, it's come up over New Zealand," MetService meteorologist Matthew Ford said.

Little Shoal Bay: Rising sea levels and storm surges cause flooding on Auckland's North Shore

It's not just pūkeko and kingfisher that flock to Little Shoal Bay when it floods - protective locals and campaigning politicians also come to observe the rising sea level on Auckland's North Shore.

Storm takes a grim toll

New Zealand Herald

According to the MetService, Saturday night's storm sparked 13,000 lightning strikes in the 12 hours to 8am on Sunday, with 841 of those on land.

Sunny, warm and wet - it's spring

Otago Daily Times

Following snow in some places around Otago and Southland last Sunday, much of Otago may get its first taste of summer tomorrow. MetService has ...

Riding the storm of inaccurate weather forecasting

Stuff.co.nz

In other words, a speedy return to winter after a tantalising taste of spring. This got me wondering how the MetService could have got the forecast so ...

Meteorologist Chester Lampkin leaving KSDK, heading to DC

STLtoday.com

KSDK (Channel 5) meteorologist and St. Louis native Chester Lampkin will ankle the station later this year to take a job in Washington, sources said.

MetOcean

Navimeteo opens an office in Falmouth, Cornwall

Seatrade Cruise News

Chiavari, Italy-based Navimeteo, experts in marine weather data and ... the official weather and marine operations provider for more than 50 ports and ...

Reliable technique to estimate near-bed kinematics for optimal design of coastal and shallow water structures

A paper detailing a new method developed by MetOcean Solutions' Senior Physical Oceanographer, Dr Séverin Thiébaud, is being presented at the Australasian Coasts & Ports 2019 Conference, held this week in Hobart, Australia.

WMO

New international coalition to combat sand and dust storms

A new international coalition has been launched to strengthen coordinated action on sand and dust storms, which have damaging impacts on human health, the environment and key economic sectors in many...

Invest in early warning to deliver climate adaptation

Investing in early warning services is critical if countries and communities are to meet the challenge of climate change, the World Meteorological Organization's Secretary-General Petteri Taalas said...

ECMWF

Europe is battling with the US in a race to predict the weather

Wired.co.uk

The European Centre for Medium-Range Weather Forecasts (ECMWF), currently based in Reading, divides the globe into nine kilometre boxes, with ...

Volcano alert

New volcanic eruption forecasting technique

Volcanic eruptions and their ash clouds pose a significant hazard to population centers and air travel, especially those that show few to no signs of unrest beforehand. Geologists are now using a technique traditionally used in weather and climate forecasting to develop new eruption forecasting models. By testing if the models are able to capture the likelihood of past eruptions, the researchers are making strides in the science of volcanic forecasting.

Extreme weather (and other news) – Antarctica and offshore

September - October, Various locations (NZ)

Choosing the Future of Antarctica

In this national lecture series, Professor Tim Naish FRSNZ will present two narratives on the future of Antarctica, looking forward 50 and 300 years: the first in which greenhouse gas emissions remain unchecked; the other involving ambitious action to limit greenhouse gas emissions.

Extreme weather (and other news) – Australia and Pacific

Bushfires out of control in NSW and Queensland, expected to increase

Authorities are labelling Queensland's bushfire emergency as historic, as crews continue to battle dozens of blazes.

More than climate change driving Queensland fires, explain climatologists

The record drought has combined with a record warm winter to fuel this year's grim fire outlook, according to climatologists and bushfire experts.

Climate change is bringing a new world of bushfires

Spring has barely arrived, and bushfires are burning across Australia's eastern seaboard. More than 50 fires are currently burning in New South Wales, and some 15,000 hectares have burned in Queensland since late last week.

The danger of heat and cold across Australia

Cold temperatures are not nearly as deadly as heat, with around 2% of all deaths in Australia related to heat, according to new research.

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

Malaysia looking into cloud seeding as haze worsens

The Straits Times

Deputy Prime Minister Wan Azizah Wan Ismail said yesterday that the meteorology department, MetMalaysia, ... THE STAR/ASIA NEWS NETWORK.

Stay or go? Asian nations mull options as seas rise, cities sink

Hellenic Shipping News Worldwide

“But more places are becoming uninhabitable because of land degradation, rising sea levels or other weather impacts, and there is no choice but to ...

Floods Cause 16 Deaths, Affect 102,074 Households in Thailand

Chiang Rai Times

Department officials will closely monitor the situation and prepare to provide timely aid to affected residents. He urged people to follow weather reports ...

Rugby World Cup: The ugly weather scenario that could impact the All Blacks

It's Steve Hansen's worst nightmare – a gimme Rugby World Cup pool game against Namibia, Canada or Italy is cancelled because of bad weather and declared a draw.

Expert reaction: Climate change in Asia

Asia is home to more than half of the world's population, and the billions of people there are deeply vulnerable to the effects of climate change. By the end of the century, India is expected to be the world's most populous country with nearly 1.5 billion people. By that point, estimates have China's population at just under 1.1 billion and Pakistan with 403 million. Asian countries are also rapidly urbanising and industrialising, with China, India and Japan making up three of the world's top polluters. Adding to the mix, the Asia-Pacific already experiences more natural disasters than any other region in the world. These factors mean that climate change is already having a huge impact on the region.

Haze Threat Looms Over Singapore as Indonesia Forest Fires Rage

Bloomberg

Indonesia's weather agency said the hotspots were also detected in ... the Philippines, Papua New Guinea, Vietnam, Timor Leste and Thailand.

Extreme weather (and other news) – Americas and Europe

European summer heatwave killed 1,500 in France, Minister says

The European summer heatwaves caused close to 1,500 deaths in France, according to the country's Health Minister.

Met Office teams up with Dutch weather officials to name next batch of storms

Herald Publicist

Are you braced for Storm Girda or Atiyah? Met Workplace groups up with Dutch climate officers to present subsequent batch of gales numerous names.

Dublin weather: Respected forecasters MetAlert Ireland predict heatwave for Ireland by end of next ...

Dublin Live

Met Alerts Ireland posted weather model image from the European Centre for Medium Range Weather Forecasts (ECMWF), adding the headline ...

International news and research

Here's Why US Law Prohibits Claiming That a 'Counterfeit Weather Forecast' Is Official

TIME

Nowadays, the commercial opportunities in weather forecasting seem limitless as technology improves and climate change makes for more extreme ...

'Sharpiegate': meteorologists upset as weather agency defends Trump's Alabama claim

The Guardian

'Sharpiegate': meteorologists upset as weather agency defends Trump's ... potentially hitting Alabama, upsetting meteorologists around the country.

Anger Among Public and Meteorologists after False Unsigned NOAA Statement

AGU Blogosphere

Broadcast meteorologists wear two hats. Scientist and science journalist. If I had ignored this, I would have been guilty of not covering a story because ...

NOAA orders Gulfstream G550 to support weather forecasting/research

FinancialNews.co.uk (blog)

Gulfstream Aerospace Corp., a General Dynamics company, has announced it has established a contract with the National Oceanic and Atmospheric ...

The Bigger Reason Trump's Fight with a Weather Forecast Worries Meteorologists

Livescience.com

Meteorologists found themselves at the center of a political storm this month, and some are worried that it could have long-term consequences for their ...

[Then Trump Came For The Scientists - WBUR](#)

[White House Pressed Agency to Repudiate Weather Forecasters Who Contradicted Trump](#)

The New York Times

The House Committee on Science, Space and Technology, which is ... administration is committed to the important mission of weather forecasting,” Dr.

[Storm names don't begin with Q, U, X, Y or Z and there's a good reason why](#)

Bristol Live

The reasoning was explained in a name chart released by the Met Office, Irish forecaster Met Éireann and Dutch national weather forecasting service ...

[From Atiyah to Willow: how UK storms get their names - Moose Gazette](#)

[Machine learning and its radical application to severe weather prediction](#)

University of Wisconsin-Madison

Now, the rapidly developing technology is making its mark in weather prediction. The fields of atmospheric science and satellite meteorology are ...

[Hurricane Dorian: scientists explain the causes of the disaster](#)

[www.MICETimes.asia](#) (press release)

According to the forecasts of meteorologists, global warming may lead to more frequent hurricanes fourth and fifth category in the Atlantic ocean twice.

[Solutions to urban heat differ between tropical and drier climes](#)

In summer heat, cities may swelter more than nearby suburbs and rural areas. And while the size of this urban heat island effect varies widely among the world's cities, heat island intensity can largely be explained by a city's population and precipitation level, researchers have reported. The analysis suggests that cooling cities by planting more vegetation may be more effective in drier regions than in wetter ones.

5G network

Hurricane Dorian's Impact Stokes Fears of 5G Network Effect on Future Weather Forecasting

Sputnik International

... signals given off by 5G networks are hindering the ability of weather satellites to monitor and track the progression of potentially dangerous storms.

Aviation

Could There Be Less Turbulence in Our Flying Future?

AFAR Media

For the first time, airlines plan to share more accurate turbulence data with the ... air around mountains, cold or warm weather fronts or thunderstorms.

Air Chathams starts flights to Norfolk Island

Air links from New Zealand to Norfolk Island have been launched today.

Energy and Mining

North Sea Power Hub team picks permitting expert

reNEWS

... selection and characterisation, feasibility studies, metocean assessments, and risk management for a variety of offshore renewable developments.

Farming/horticulture/Aquaculture

Warm weather, rain wreaks havoc on vege growers over winter

New Zealand vegetable growers are struggling financially after a disastrous winter.

Health

Many Older Americans Aren't Equipped to Weather Hurricanes Like Dorian

HealthDay

Many Older Americans Aren't Equipped to Weather Hurricanes Like Dorian ... information in a crisis, according to the National Poll on Healthy Aging by the Institute Healthcare Policy and Innovation at the University of Michigan.

Extreme weather events linked to poor mental health

Posted: 05 Sep 2019 05:01 AM PDT

People with homes damaged by extreme weather events are more likely to experience mental health issues such as depression and anxiety even when the damage is relatively minor and does not force them to leave their homes, a new study suggests.

History

Snowstorm relief sought

yesterday's meeting of the Otago Land Board a petition was received from some 18 runholders in the Lakes district asking for some relief on account of the loss sustained by the snowstorm, experienced in the spring of last year.

1816: The Year Without Summer

Thanks to a huge volcanic eruption folks in 1816 had a good excuse to complain about the weather. Worldwide famine, floods and disease -all thanks to enough toxic ash in the sky to turn summer into winter.

Lightning

Lightning 'superbolts' form over oceans from November to February

Lightning superbolts -- which unleash a thousand times more low-frequency energy than regular lightning bolts -- occur in dramatically different patterns than regular lightning, according to a new, nine-year survey of these rare events.

Transport/roading/shipping/freight

Shipping Companies Have A New Weather Forecast Tool Using Space Tech

Forbes

Spire Global announced a new weather forecast tool specialized for maritime companies, providing information to help ports, ships and shipping ...

What do Increased Weather Risks Combined with New IMO 2020 Sulphur Regulations Mean for ...

Hellenic Shipping News Worldwide

The gradual increase of severe weather conditions produces significant ... When combined with weather statistics for more than two thousand ports ...

Innovation and technologies and AI

Launch of AccuWeatherIQ™ brings weather targeting to industry leading data platforms, enables ...

PRNewswire (press release)

"AccuWeatherIQ answers a critical need identified by our many advertising clients, which is to efficiently and effectively extend weather-based ...

Time for a Better Forecast: ClimaCell Launches its Consumer Weather App

New Kerala

ClimaCell takes a new approach to weather forecasting we combine ... aviation to construction, drones, transportation, utilities and outdoor events.

Cloud seeding / Geoengineering

Royal Rainmakers called in to replenish Phuket reservoirs

The Phuket News

Cloud seeding will be conducted by the Southern Royal Rainmaking Operation Center based in Surat Thani. The center will use a CN-235 turboprop ...

As haze worsens, Malaysia looking into cloud-seeding

The Straits Times

KUALA LUMPUR (THE STAR/ASIA NEWS NETWORK) - Malaysia is ... on Saturday (Sept 7) that the Meteorology Department (MetMalaysia) would ...

Te reo

14 September, Wellington
Whānua Storytelling with Te Reo Wainene o Tua

Celebrate Te Wiki o Te Reo Māori by bringing your whānau to hear captivating bilingual kōrero from Joe Harawira of Te Reo Wainene o Tua, a te reo Māori storytelling collective.

When | Āhea Sat 14 Sep 2019, 1.00pm–2.00pm
Where | Ki hea Te Marae, Level 4
Cost | Te utu Free event

Te reo Māori activity book Te reo Māori pukapuka mahi

A free downloadable activity book for kids.

Celebrate Māori language by learning Māori words and phrases through simple activities that kids love – word searches, colouring pages, crosswords, and stories.

Whakanuia te reo Māori mā te ako i ngā kupu me ngā kīanga Māori mā ngā mahi māmā e arohatia e ngā tamariki – rapunga kupu, kauruku i ngā whārangi, me ngā pūrākau.

<https://www.tepapa.govt.nz/learn/for-educators/teaching-resources/te-reo-maori-language-week-activity-book>

Too old to learn Māori? It's not your brain that's holding you back

PPTA president Jack Boyle has been learning Māori for three years. He's working hard at it and says becoming fluent is the 30-year plan.

He may be partly joking, but the effort Boyle has to make to learn te reo is in marked contrast to the ease with which young children soak up languages.

Three-minute power te reo Māori lesson: Five words every Kiwi should know

You don't need to learn how to speak perfect, formal te reo Māori to help normalise the language of Aotearoa - you can do it one word at a time.

Professional interest

The forecast calls for ...

Your weather report: Clear, sunny skies, mild temperatures and a 100 percent chance of atmospheric TED Talks.

Journal and articles online

The ECMWF ensemble prediction system: Looking back (more than) 25 years and projecting forward 25 years

Tim Palmer

Pages: 12-24 | First Published: 26 August 2018

Although Lorenz himself developed his iconic 1963 model to show the impossibility of deterministic long-range forecasting, it can also be used to illustrate the existence of an intermittent butterfly effect within the limit of deterministic predictability. (a) Weak growth of initial uncertainty. (b) Moderate growth of initial uncertainty. (c) Explosive growth of initial uncertainty. For users to have confidence in forecasts within this deterministic limit, it is necessary to flag situations where this intermittent explosive growth is active, and to predict plausible alternative weather scenarios probabilistically – more generally to predict flow-dependent uncertainty. This means abandoning the deterministic paradigm that has guided the development of numerical weather prediction over many years.

Historical perspective: earlier ensembles and forecasting forecast skill

Eugenia Kalnay

Pages: 25-34 | First Published: 28 June 2019

Schematic of the first two practical ensemble-forecasting methods: Monte Carlo (MC, Leith, 1974b) forecasts (left) and Lagged Average Forecasts (LAF, Hoffman and Kalnay, 1983, right). The crosses represent the analyses at the initial time, and the dots are Monte Carlo perturbations. The MC ensemble average with m members reduces the long-term forecast error covariance compared to the error covariance of a climatological forecast from 2 to $(1 + 1/m)$. LAF takes advantage of operational available forecasts, and thus the LAF initial perturbations include “errors of the day”, which improves forecast of the skill compared to MC initial perturbations.

Using the hybrid gain algorithm to sample data assimilation uncertainty

Pieter Leopold Houtekamer, Mark Buehner, Michèle De La Chevrotière

Pages: 35-56 | First Published: 11 November 2018

A new configuration of the hybrid gain algorithm combines the Canadian global ensemble Kalman filter and ensemble variational analyses in a single multi-analysis system. The two analysis systems behave most differently in the stratosphere, where the biggest improvements are seen. The substantial improvement in the spread-skill relationship for the highest peaking AMSU-A channel is shown here.

The scale dependence of initial-condition sensitivities in simulations of convective systems over the southeastern United States

Jonathan A. Weyn, Dale R. Durran

Pages: 57-74 | First Published: 27 June 2018

High-resolution ensemble numerical weather simulations for widely-ranging severe weather events, like the ones shown above, show that convection in weakly-forced events is less predictable and more sensitive to small-scale initial errors than that associated with strong synoptic systems.

Treatment of model uncertainty from radiation by the Stochastically Perturbed Parametrization Tendencies (SPPT) scheme and associated revisions in the ECMWF ensembles

Sarah-Jane Lock, Simon T. K. Lang, Martin Leutbecher, Robin J. Hogan, Frederic Vitart

Pages: 75-89 | First Published: 12 June 2019

In its current form, the Stochastically Perturbed Parametrization Tendencies (SPPT) scheme generates ensemble spread that implies greater model uncertainty over the night-time globe in clear-sky conditions than over the daytime globe (left-hand figure). There is no physically plausible explanation for such behaviour. In this work, we propose a revised formulation of SPPT that removes this day–night contrast in the description of model uncertainty (right-hand figure).

Convection-permitting ensembles: Challenges related to their design and use

Inger-Lise Frogner, Andrew T. Singleton, Morten Ø. Køltzow, Ulf Andrae

Pages: 90-106 | First Published: 11 March 2019

Added value: Brier Skill Score of IFSSENS ensemble with IFSSENS control as reference forecast (black), MEPS ensemble with MEPS control as reference forecast (blue), MEPS control with IFSSENS control as reference (light blue) and MEPS ensemble with IFSSENS ensemble as reference forecasts (red). Challenges related to the design and use of CPEPSs are discussed; the predictability for scales smaller than ~60 km is lost rapidly within the first 6 h with the smallest predictable scale growing more slowly to ~100 km over the following 18–24 h. For precipitation there is added value of CPEPS over deterministic forecasts and coarser resolution EPSs for

precipitation events, although the added value is higher in summer compared to winter and for shorter lead times compared to longer lead times.

Ensemble size: How suboptimal is less than infinity?

Martin Leutbecher

Pages: 107-128 | First Published: 25 July 2018

The ensemble mean and other quantities derived from ensemble forecasts can be viewed as random variables. Shown are ensemble mean seven-day forecasts of 500 hPa height obtained from 20 alternative realizations of an eight-member ensemble. The article looks at the impact of finite ensemble size on probabilistic skill and implications for the ensemble configuration used in research and development to test changes affecting ensemble forecasts.

The ensemble-adjusted Ignorance Score for forecasts issued as normal distributions

Stefan Siegert, Christopher A. T. Ferro, David B. Stephenson, Martin Leutbecher

Pages: 129-139 | First Published: 04 December 2018

Ensemble forecasts are routinely used as a basis for probabilistic predictions. The skill of probabilistic predictions derived from ensemble forecasts depends on the number of ensemble members. We derive a new verification score, called the ensemble-adjusted Ignorance Score, which can correct for the effect of limited ensemble size and therefore allows for a more robust comparison of forecasts based on different ensemble sizes.

The unadjusted Ignorance Score (solid line) depends on the ensemble size m , assigning higher (worse) scores to smaller ensembles drawn from the same forecast distribution. The ensemble-adjusted Ignorance Score (dashed line) proposed here does not depend on ensemble size and thus allows for a fair comparison of equivalent ensembles of different sizes.

How confident are predictability estimates of the winter North Atlantic Oscillation?

Antje Weisheimer, Damien Decremet, David MacLeod, Christopher O'Reilly, Tim N. Stockdale, Stephanie Johnson, Tim N. Palmer

Pages: 140-159 | First Published: 28 November 2018

Because of the non-stationary character of the North Atlantic atmospheric flow on time-scales of several decades, short hindcast periods are not sufficiently representative for the longer-term behaviour of the climate system, and small sample sizes can lead to skill estimates, in particular of correlation, that are not robust. Our findings provide a simple but plausible explanation for the apparently conflicting findings of under- and overconfidence over parts of the North Atlantic.

Uncertainty and scale interactions in ocean ensembles: From seasonal forecasts to multidecadal climate predictions

L. Zanna, J. M. Brankart, M. Huber, S. Leroux, T. Penduff, P. D. Williams

Pages: 160-175 | First Published: 09 October 2018

The ocean plays an important role in the climate system on time-scales of weeks to centuries. Despite improvements in ocean models, dynamical processes involving multiscale interactions remain poorly represented, leading to errors in forecasts. We present recent advances in understanding, quantifying, and representing physical and numerical sources of uncertainty in novel regional and global ocean ensembles at different horizontal resolutions.

Current state of the global operational aerosol multi-model ensemble: An update from the International Cooperative for Aerosol Prediction (ICAP)

Peng Xian, Jeffrey S. Reid, Edward J. Hyer, Charles R. Sampson, Juli I. Rubin, Melanie Ades, Nicole Asencio, Sara Basart, Angela Benedetti, Partha S. Bhattacharjee, Malcolm E. Brooks, Peter R. Colarco, Arlindo M. da Silva, Tom F. Eck, Jonathan Guth, Oriol Jorba, Rostislav Kouznetsov, Zak Kipling, Mikhail Sofiev, Carlos Perez Garcia-Pando, Yaswant Pradhan, Taichu Tanaka, Jun Wang, Douglas L. Westphal, Keiya Yumimoto, Jianglong Zhang

Pages: 176-209 | First Published: 04 February 2019

International Cooperative for Aerosol Predictions (ICAP) model 550 nm total AOD RMSE of the 72 h forecast versus corresponding mean AODs for AERONET sites listed in Table 2. Large black dots are ICAP multi-model ensemble consensus means. Individual models are in small coloured dots. Validation of fine- and coarse-modal AODs and dust AOD is also available in Figure 2.

Promoting the use of probabilistic weather forecasts through a dialogue between scientists, developers and end-users

Vanessa J. Fundel, Nadine Fleischhut, Stefan M. Herzog, Martin Göber, Renate Hagedorn

Pages: 210-231 | First Published: 28 January 2019

Ensemble predictions provide reliable and sharp probabilistic forecasts, yet these are still rarely communicated to end-users. We present three approaches to introducing probabilistic weather forecasts – and illustrate three key insights: (a) to make informed decisions, users need probabilistic forecasts; (b) users can understand forecast uncertainty if representations follow best practices from risk communication; and (c) users need to experience probabilistic forecasts in their day-to-day practice to evaluate their benefit. With these insights and practical pointers, we hope to support future efforts to integrate probabilistic forecasts into everyday decision making and to encourage everyone to seek interdisciplinary collaborations.

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.

September 10, 2019

News

American Meteorological Society Response to NOAA Statement

September 7, 2019 - SpaceRef

Read the full statement here.

[Read MORE](#)

Poll: Most Americans see weather disasters worsening

September 5, 2019 - Phys.org

Nearly three-quarters of Americans see weather disasters, like Hurricane Dorian, worsening and most of them blame global warming to some extent, a new poll finds. And scientists say they're right.

[Read MORE](#)

The Development of a Weather-based Crop Disaster Program

September 9, 2019 - SFGate

Floods, tornados, hurricanes and many other natural disasters can be detrimental to American farmland. Is there a way for producer to save money when partaking in a crop insurance program even if the weather is not cooperating?

[Read MORE](#)

Satellites reveal peatland fire susceptibility

September 9, 2019 - Phys.org

In 2015, the haze from peatland fires was fatal, responsible for more than 100,000 premature deaths in Indonesia, Malaysia and Singapore.

[Read MORE](#)

[Machine learning and its radical application to severe weather prediction](#)

September 9, 2019 - Tech Xplore

The rapidly developing technology is making its mark in weather prediction.

[Read MORE](#)

[A Tale of Two Hurricane Forecasts](#)

September 8, 2019 - Medium

To refocus us, I thought I'd compare and contrast the forecasts for Dorian and another hurricane that threatened south Florida: Hurricane Cleo in 1964.

[Read MORE](#)

[See NASA's animation of Hurricane Dorian made with a satellite 'the size of a cereal box'](#)

September 6, 2019 - CNBC

The animation is generated with data from an “experimental” satellite used to track weather patterns, NASA says in a statement published Wednesday.

[Read MORE](#)

[New climate model for the IPCC](#)

September 6, 2019 - Phys.org

Researchers from the Alfred Wegener Institute now, for the first time, feed the results from their global models directly into the Intergovernmental Panel on Climate Change database.

[Read MORE](#)

[Watch forecasters launch weather balloons into Dorian from the North Carolina coast](#)

September 6, 2019 - Miami Herald

As soon as they pulled the large balloon from the building, Dorian's winds picked it up and carried it off into the storm.

[Read MORE](#)

[Watch hurricane hunters shoot through Dorian's stadium-like eye](#)

September 5, 2019 - Mashable

National Oceanic and Atmospheric Administration (NOAA) hurricane hunters flew through Hurricane Dorian's eye on Thursday morning, revealing the "stadium-like" phenomena at the storm's core.

[Read MORE](#)

[Hurricane tracking technology is about to regress 30 years, thanks to 5G cell networks](#)

September 4, 2019 - Salon.com

What does a cellular network have to do with weather forecasting? It turns out quite a lot, as one signal interferes with the other.

[Read MORE](#)

[Tiny airborne particles from wildfires have climate change implications](#)

September 5, 2019 - Phys.org

The smoke from BB events produces large amounts of aerosol particles and gases. These emissions can cause major problems for visibility and health, as well as for local and global climate.

[Read MORE](#)

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My latest WeatherEye from John Maunder

<https://www.sunlive.co.nz/blogs/13764-tauranga-august-average-afternoon-temperatures-19132019.html>

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