

These clips are courtesy of MetService library

MetOcean

New Model Predicts Sudden Rogue Waves

Unified theory describes formation of huge, mysterious waves

WMO

Global Seasonal Climate Update provides guidance on temperatures, rainfall

Posted:

Warmer than average sea surface temperatures across large parts of the globe in May and June are expected to result in above-normal land temperatures, particularly at tropical latitudes and much of...

Extreme weather (and other news) - Australia and the Pacific

Cyclone season 'near normal', says SPREP

The Pacific Regional Environment Programme (SPREP) says the latest cyclone season was 'near normal'.

International news and research

Pumping Charged Particles onto Airplane Surfaces Could Reduce Lightning Strikes

Tests reveal that an imbalance of charge buildup can trigger airplane lightning

Aviation

Air NZ internal documents reveal long, slow recovery

Internal Air New Zealand documents predict it will be two years before the airline can hope to be back at 70 percent of its pre-Covid-19 long haul business.

Auckland Airport brings \$26m runway works forward with flights down 95 per cent

A \$26 million project to replace the runway at Auckland Airport will begin in two weeks and create 150 jobs.

NZALPA: Serious Safety Concerns Outlined On Airways Proposal

Scoop.co.nz

Without this information there is more risk to aircraft and passengers from poor weather and landing conditions, an increased likelihood of a flight being ...

Air NZ turns Dreamliner into inter-island cargo carrier

Air New Zealand has turned its Dreamliner into a cargo carrier.

Aviation sector gets Rs502.971m to execute 15 projects in 10 months

The News International

An amount of Rs10.250 million has been issued for the Reverse Linkage project between Pakistan **Meteorological** Department and Marmara Research ..

Climate change / global warming

Climate explained: what caused major climate change in the past?

Climate Explained is a collaboration between The Conversation, Stuff and the New Zealand Science Media Centre to answer your questions about climate change.

Heat and Humidity Are Already Reaching the Limits of Human Tolerance

Events with extreme temperatures and humidity are occurring twice as often now as they were 40 years ago

Street smarts required in heat mitigation

Posted: 11 May 2020 11:21 AM PDT

Researchers investigated how solar reflective coatings on select Los Angeles city streets affected radiant heat and, in turn, pedestrians' comfort on a typical summer day. The idea is, if you coat a street with a lighter color than traditional pavement black, it will actually lower the surrounding temperatures. But researchers wanted to measure what effect reflective coating had on pedestrians.

Covid-19 / Business

What to expect from the 2020 Budget

The Finance Minister will unveil a Budget today that will set this country's economic course for years, if not decades, to come.

Energy and Mining

Exploring the impacts of climate change on hydropower production

Posted: 11 May 2020 08:25 AM PDT

A new study investigated the impacts of different levels of global warming on hydropower potential and found that this type of electricity generation benefits more from a 1.5°C than a 2°C climate scenario.

Victorian gas demand impacts from COVID-19

Energy Magazine

The Australian Energy Market Operator (AEMO) has released an impact summary ... During their analysis the team noted that the hourly demand profile for ... per cent in peak day demand in addition to increased sensitivity to weather ...

Uncertainty of European Electricity Demand Through COVID-19 Recovery

Forbes

Note: Loads are weather unadjusted and cover weekdays only. The Nature of Electricity Demand Recovery Is Uncertain. While this 10%-20% electricity ...

How is the Covid-19 energy slump affecting the weather?

The Guardian

Energy demand has plummeted during the Covid-19 crisis and global ... Is this affecting our weather and will it affect the global climate in years to ...

Government (regional and national)

The future of New Zealand's state sector

Central government has abdicated responsibility and accountability by decentralising its decision-making. When the dust clears from the present crisis, we should look at bringing back specialised departments headed by real experts

Health

Will warmer temps help contain coronavirus? Two studies say, 'not really'

(HealthDay)—Two new reports suggest that the warm summer months will not significantly slow the novel coronavirus as it spreads around the globe.

Ministry of Health says influenza vaccine demand surpasses supply

The Ministry of Health says it does not have enough doses of influenza vaccine to meet increased demand brought about by Covid-19.

Space weather

Space Weather Forecasting Takes Inspiration from Meteorology

Solar features analogous to major atmospheric waves on Earth could offer more advanced warning of harmful solar storms.

Transport/roading/shipping/freight

The eye of the storm: boosting railway resilience in the UK

Railway Technology

At the moment, Network Rail says it is relying on the most sophisticated **weather** forecasting **technologies** to ensure it catches bad **weather** before it's ...

Weather in pictures

A Rare 'Thundersnow' Storm Hit Parts Of Southern Ontario Yesterday & It's Wild (VIDEOS)

Narcity

... according to The **Weather Network**. Videos were able to capture graupel, which is small snow pellets, as well as rumbles of thunder hitting the city at ...

Te reo

Tāwhirimātea: God of the wind and storms

Ko *Tāwhirimātea* te atua o te hau me ngā āwhā.
Tāwhirimātea is the god of the wind and storms.
- this is an example of an equative sentence

Also see *hau*.

Ngā tohu a *Tāwhirimātea*.
The weather – the signs of *Tāwhirimātea*.

Learn more at Te Ara.

Hear this kupu spoken and get the PDF

Rāapa, te 13 o Haratua, 2020.

hau: wind

Kei te pupuhi te *hau*.
The *wind* is blowing.
- this is an example of an active sentence

Kei te pūhia ngā kākahu e te *hau*.
The clothes are being blown by the *wind*.
- this is an example of a passive sentence

Also see *Tāwhirimātea*.

Hear this kupu spoken and get the PDF

Rātū, te 12 o Haratua, 2020.

Odd spot

The Storm-Chasing Special Effects Team Behind ‘Twister’

In the early '90s, Industrial Light & Magic's visual effects crew set out to do something that had never been done. When they were finished, cows were flying through the sky, and audiences had their first up-close glance at a tornado.

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.

Even with Americans stuck at home, weather forecasts are an integral part of life

The Washington Post - May 8, 2020

We obsessively check the weather — but most Americans don't know that scientific forecasts are a relatively new historical development.

Decoding the skies: The impact of water vapor on afternoon rainfall

ScienceDaily - May 5, 2020

The role that atmospheric water vapor plays in weather is complex and not clearly understood. However, University of Arizona researchers have started to tease out the relationship between morning soil moisture and afternoon rainfall under different atmospheric conditions in a new study in the journal *Geophysical Research Letters*.

Space Weather Forecasting Takes Inspiration from Meteorology

Eos - May 11, 2020

Solar features analogous to major atmospheric waves on Earth could offer more advanced warning of harmful solar storms.

NASA CubeSat Mission to Gather Vital Space Weather Data

NASA - May 7, 2020

NASA has selected a new pathfinding CubeSat mission to gather data not collected since the agency flew the Dynamics Explorer in the early 1980s.

Weather forecasts could become more challenging during the coronavirus storm

Phys.org - May 11, 2020

The COVID-19 pandemic has disrupted several sectors and meteorology is no exception. The quality and quantity of the observational data that feed into weather forecasting models could well be affected by the pandemic, according to the World Meteorological Organization (WMO).

Extreme weather will directly impact one-third of Americans by 2050

Earth.com - May 5, 2020

By 2050, one in every three Americans will be exposed to extreme climate events every year, according to a study led by the Oak Ridge National Laboratory (ORNL).

How is the Covid-19 energy slump affecting the weather?

The Guardian - May 11, 2020

Global emissions are expected to be 8% lower this year but the long-term impact is unclear.

Are We Already In An Era Of Temperatures That Can Exceed Human Limits Of Survivability?

Forbes - May 8, 2020

We may have already entered an era in which temperatures exceed human survivability limits.

NASA hires NOAA official as new Earth science director

SpaceNews - May 10, 2020

NASA has selected an official with the National Oceanic and Atmospheric Administration's satellite division to lead its Earth science programs, a search that took more than a year to complete.

John Moulder's weathereye

<https://www.sunlive.co.nz/blogs/14668-auranga-average-afternoon-temperatures-april-19132020.html>

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