

New Zealand weather and climate news

MetService mentions

Fire risk in parts of New Zealand could more than double with climate change

The extreme fire risk that contributed to this week's devastating Tasman infernos could more than double by the end of the century according to climate models.

Enormous dust cloud heading to NZ after blanketing parts of Australia

A 2300-kilometre long dust cloud is heading to New Zealand after blanketing parts of eastern Australia.

MetService duty forecaster Heath Gullery said the dust blowing across the Tasman Sea would likely reach the South Island and parts of the lower North Island this week.

Your weather: hot weather for Wednesday across New Zealand, Tropical Cyclone Oma forms near Vanuatu

MetService meteorologist Nick Zachar said a ridge of high pressure was sticking around the north and middle of the country, driving warmer temperatures today and tomorrow.

No significant rain in sight for desiccated eastern and northern South Island spots

Tinder dry parts of the South Island are unlikely to get significant rain relief in the next fortnight – and possibly not this month – heightening the fire risk.

Water use warning as Tauranga enters longest dry spell in 30 years

Tauranga is in its longest dry spell in 30 years, according to the man in charge of the city's water under pressure supply.

The city has been without rain in almost a month, with the last recorded rain falling on January 16.

MetOcean

'Underwater forecast' predicts temperature, acidity and more in Puget Sound

UW Today

“It's like a weather forecast of the ocean in our region,” said lead developer Parker MacCready, a UW professor of oceanography. The project is the ...

Spooky tides spark call to tsunami experts

Locals were left so spooked by weird tides at a Canterbury beach yesterday that GNS Science experts were asked to look into a potential tsunami.

But the reason for the dramatic fluctuations around Lyttleton weren't the result of an approaching monster wave, scientists say, but something else entirely.

Extreme weather (and other news) – Australia and Pacific

Storm-o-nomics: Why Australia should be more prepared for extreme weather

Another Australian summer has been marked by disasters triggered by extreme weather. Some came out of the blue, like the Townsville floods. Others unfolded gradually, like the drought afflicting much of eastern Australia.

Norfolk Island's drought proves the big dry extends beyond Australia's mainland

It is hard to imagine that a small, sub-tropical island, surrounded by a vast ocean, could be struggling through drought similar to the one currently being endured on the Australian mainland.

Cyclone Oma veers west, still a category two

A cyclone hovering near the top of Vanuatu has veered west overnight, and is heading out to sea.

Cyclone Oma remains a category two storm with sustained winds of 95 kilometres an hour near its centre.

Snow falls in Hawaii as icy blast slams Northwest in the US

Winter snowstorms are pummeling the Northwest in the US as a large weather system wreaked havoc in the region and even brought snow to Hawaii.

Snow falls on parts of Tasmania as fires still smoulder

Weather News Story » Weatherzone Mobile

Georgie Burgess, Wed 13 Feb 2019. Tasmania has received its first snow of the year, and it's falling on areas that were threatened by fierce bushfires ...

Fire, floods, dust and snow — how is this all happening at the same time?

There are fires in NSW, a heatwave in south-east Queensland, the dust is still settling on Sydney and Canberra, and it snowed in Tasmania overnight.

NSW Rural Fire Service declares statewide total fire ban ahead of hot, windy conditions

A total fire ban is in place across New South Wales with 33 bush and grass fires burning across the state, nine currently uncontained.

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

This new storm and wave predictor can save SA business billions - and help surfers catch the ...

Business Insider South Africa

The South African Weather Service has launched a new wave and storm surge predictor. Sea level rise and an increase in storm severity are two of ...

Smog set to ease, but summer brings water shortage fears

The Nation

WINTER in Thailand will be over next week, the Meteorological Department announced yesterday. Even though the smog problem is expected to ...

Kenyan farmers trust tradition over tech to predict the weather

Business Daily (press release) (blog)

Mbaka, like many farmers across the country, still uses traditional weather forecasting techniques to decide what to plant and when on her land in ...

Extreme weather (and other news) – Americas and Europe

Flooding, landslides kill at least eight in Peru and Chile

Downpours typical of El Nino continue to cause destruction in South America.

Watch how the climate could change in these US cities by 2050

In some cities, it'll be like moving two states south.

Photos: Snow makes a rare appearance in Las Vegas

AccuWeather.com

GRAPEVINE: I-5 is now CLOSED in both directions due to inclement weather. Closure on Southbound I-5 at Grapevine Road, northbound closure ...

Billion-dollar weather and climate disaster bill for 2018

The Weather Network

Monday, February 11, 2019, 12:30 PM - The number of weather and climate related disasters in the U.S. has been growing this decade and the list is ...

International news and research

Ethiopia's National Meteorology Agency releases tender for weather observation systems

Ethiopia's National Meteorology Agency released a tender for the installation of 'Automated Weather Observing Systems' at Awasa Airport and Dessie ...

'Ghost apples' left dangling on tree after Michigan ice storm

An ice storm that hit a Michigan orchard left mesmerizing "ghost apples" dangling from trees.

Seasons change: Researchers provide new definition for major Indian monsoon season

Researchers have used detailed surface temperature analyses to develop the first-ever objective definition of the Northeast Indian Monsoon.

NOAA and NCAR team up for Weather and Climate Modeling

insideHPC

Historically, different architectures for developing weather and climate ... The Earth Prediction Innovation Center, UFS, and the joint NOAA/NCAR ...

Measuring The Cost Extreme Weather Has On The Economy

NPR

Measuring The Cost Extreme Weather Has On The Economy ... to a productivity pause on businesses, weather affects the U.S. business sector in ...

Melting ice sheets may cause 'climate chaos' according to new modelling

Posted: 06 Feb 2019 10:19 AM PST

The weather these days is wild and will be wilder still within a century -- in part, because the water from melting ice sheets off Greenland and in the Antarctic will cause extreme weather and unpredictable temperatures around the globe. A new study is the first to simulate the effects,

under current climate policies, that the two melting ice sheets will have on ocean temperatures and circulation patterns as well as on air temperatures by the year 2100.

Underwater forests threatened by future climate change, new study finds

Posted: 06 Feb 2019 07:11 AM PST

Climate change could lead to declines of underwater kelp forests through impacts on their microbiome. New research has found predicted ocean warming and acidification can change microbes on the kelp surface, leading to disease and potentially putting fisheries at risk.

Warning Scale Unveiled for Dangerous Rivers in the Sky

Strings of ocean storms called atmospheric rivers flood California and other western coastlines, although sometimes they can be beneficial

Climate of North American cities will shift hundreds of miles in one generation

Posted: 12 Feb 2019 09:00 AM PST

In one generation, the climate experienced in many North American cities is projected to change to that of locations hundreds of miles away -- or to a new climate unlike any found in North America today. A new study and interactive web application aim to help the public understand how climate change will impact the lives of people who live in urban areas of the United States and Canada.

Climate Studies, Research Feel Lingering Aftermath of Shutdown

Buoys that track El Nino, which affects climate, not monitored, serviced

Research planning made difficult by possibility of second shutdown

Embry-riddle Aeronautic University Chooses Baron Lynx™ Weather Graphics as Meteorology and ...

ThomasNet News

Huntsville, AL – Baron, a leading provider of critical weather solutions, ... analysis and forecasting, aviation weather, and tropical meteorology classes.

We meet the new boss of Exeter's Met Office - and she has a stark warning over climate change

Devon Live

The new boss of the Met Office has warned climate change is very real and the world's populations will feel its impact in the coming years. Prof.

The Met Office storms ahead on data analytics

ComputerWeekly.com

In this week's Computer Weekly, we find out how the Met Office takes 2TB of weather data every hour and turns it into useful business insight.

These Super Rare "Light Pillars" Have Been Lighting Up Skies Across Canada This Winter

Narcity

According to The Weather Network, extremely cold temperatures, like what all of Canada has been experiencing, brings with it an incredibly beautiful ...

Int'l symposium on agro meteorology for managing climatic risks of farmers begins

United News of India

This is being organised by the 'Association of Agro meteorologists' (AAM) with a focus on "Advances in Agro meteorology for Managing Climatic Risks ...

The secret to Japan's precise forecast of the dates when cherry blossoms bloom

Quartz

In 1951, Japanese meteorologists began trying to get ahead of the blooms for better planning. Today, the "sakura zensen," or cherry blossom front, is a ...

Improving access to weather information

Access to better seasonal weather data can help farmers adapt more successfully to climate change, giving them better information to help decide what to plant and when. Widespread use of mobile phones is bringing the data to farmers' hands - but is what they're getting local enough, specific enough and understandable enough to be useful?

WMO

Scientific Assessment confirms start of recovery of ozone layer

The full Scientific Assessment of Ozone Depletion is now available. It shows that actions taken under the Montreal Protocol have led to decreases in the atmospheric abundance of controlled...
Coastal Flooding Forecast Strengthened in Indonesia

Posted:

Indonesia is making progress in integrating coastal flood forecasting into its meteorological early warning system to increase protection against one of the major hazards impacting the country.

Others

AccuWeather Promotes John Dokes to Chief Content Officer & President of AccuWeather Network ...

MarTech Series

He has also continued to strengthen the only 24x7x365 “All Weather, All the Time” national HD weather network through innovative programming, ...

Art

Online archive of historic watercolours paints a stark image of the ravages of climate change

In the 18th century, watercolours became a popular way for professional and amateur artists alike to document the landscapes, animals and plants that were important to them. Portable and aesthetically pleasing, watercolours helped bring painters' worlds to life.

Aviation

How Airlines Are Working To Detect And Avoid Clear Air Turbulence

Forbes

It's no secret that bad weather, particularly throughout the winter season, wreaks havoc on air travel. According to a 2016 study in Physical Geography, ...

Fewer 'Fasten Seat Belt' Warnings, Courtesy of IBM

Bloomberg

A new global weather forecasting system will benefit airline passengers—and ... of upper-air turbulence, which will allow airlines to avoid choppy air.

Business/Insurance

Nelson fire fallout costs forestry industry \$2 million per day

A total fire and equipment ban in the Nelson area has thrown up to 240 forestry contract workers out of jobs and closed two sawmills, with more closures threatened.

Severe water restrictions to bite as drought could cost over \$100 million

Water is emerging as the biggest threat in the Tasman district as "desperate" growers face tougher water restrictions earlier than ever.

Global Weather Forecasting System Market to Witness Stellar Growth Rate in the Next 10 Years

Digital Day News

There are several weather forecasting systems available in the market ... In North America, the continuous improvements in weather satellites and ...

Global interconnectivity is spreading major risks across the world

Insurance Business New Zealand

When it comes to extreme weather, there is little that an individual company can do to slow the effects of climate change or prevent natural ...

Communications/social media

San Antonio meteorologists venture out on new project beyond TV

mySanAntonio.com

KSAT meteorologists Kaiti Blake and Sarah Spivey will now join your daily commute, run or study session as they launch a brand new podcast.

Energy and Mining

Blustery weather powers UK wind to new generation record

www.businessgreen.com

Last Friday wind turbines across the country together generated 36 per cent of the UK's total electricity demand, industry body RenewableUK ...

Giving miners a voice: how disempowered workers face safety risks

Research from Cardiff University and the Institute of Occupational Safety and Health has demonstrated that miners who are excluded from the decision-making process in regards to safety and health matters face disproportionate safety risks while at work.

Health

Cases of deadly dirt disease melioidosis will increase as climate changes, expert warns

A senior tropical disease researcher is warning that cases of the potentially lethal soil-borne infectious disease melioidosis will increase due to climate change.

Lightning

2 killed, 4 kids injured in lightning strikes in Nepal

In Nepal, lightning is considered as one of the major causes of natural calamities deaths.

Satellites and radar

A Look Back at Satellite Milestones in 2018

WeatherNation

The European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT) launched Metop-C, a new polar-orbiting satellite that will ...

Innovation and technologies (inc data and new products)

Weather Company CEO Unveils IBM Tools to Help Utilities Deal with Erratic Weather

IBM in partnership with its subsidiary, The Weather Company, is using artificial intelligence and predictive technology to mitigate power outages during extreme weather conditions. But Weather Company CEO Cameron Clayton says the technology could have major implications for utility companies that are struggling to keep up with increasingly unpredictable weather.

Smart wall poster changes colour as it displays weather forecast

Business Recorder

Smart home gadgets have already been taking up places in homes with different options to check out the weather update, but a startup has introduced ...

Climate change / global warming / sea level rise

Long-term, sustainable solutions to sea level rise

New study helps shift decision-making around sea-level rise towards more long-term, sustainable solutions

Thaw of Himalayas set to disrupt Asia's rivers, crops - study

The report, by 210 authors, said that more than a third of the ice in the region will melt by 2100 even if governments take tough action to limit global warming under the 2015 Paris climate agreement

Long-term thinking needed on climate change - report

New research shows more weight should be given to tougher, longer-term decisions taking into account the future effects of climate change.

Climate Change: The Cascade Effect

Cascading impacts and implications for Aotearoa New Zealand

The impacts of increases in temperature, rainfall, sea levels and extreme events will cascade across all sectors of society. Our assets, communities and social and economic interactions will all be affected.

Climate change expected to cause dramatic increases in fire risk

Parts of the country with low or moderate fire risk are likely to see dramatic increases in danger as climate change occurs.

Will forest fires become more likely in a warmer world? Yes - but it's complicated

ANALYSIS: When the all-consuming fire south of Nelson first flickered to life, and before it had become the largest forest fire in New Zealand for six decades, some were already reflecting on a similar blaze two years earlier.

Journal and articles online

Meteorological Applications

Accepted Articles

Accepted, unedited articles published online and citable. The final edited and typeset Version of Record will appear in the future.

Dealing with inconsistent weather warnings: Effects on warning quality and intended actions

Philippe Weyrich, Anna Scolobig, Anthony Patt

First Published: 04 February 2019

Characterization of meteorological droughts across South Australia

Md. Mamunur Rashid, Simon Beecham

First Published: 03 February 2019

Weather

Early View

Online Version of Record before inclusion in an issue

A dialogue-based weather forecast: adapting language to end-users to improve communication

Anders D. Sivle, Thomas Aamodt

Version of Record online: 30 January 2019

Is fine weather actually fine weather to everyone? Professional end-users are likely to benefit from the use of technical language when discussing meteorology, whereas non-experts are likely to find everyday language more suited to their needs. To reduce the number of possible interpretations of everyday language when used to describe weather, its usage should be co-developed with end-users and combined with graphical/numerical information.

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[The Role of Dynamic Tropopause Rossby Wave Breaking for Synoptic-Scale Buildups in Northern Hemisphere Zonal Available Potential Energy](#)

Kevin A. Bowley, John R. Gyakum, and Eyad H. Atallah

[Characteristics of the Marine Boundary Layer Jet over the South China Sea during the Early Summer Rainy Season of Taiwan](#)

Chuan-Chi Tu, Yi-Leng Chen, Pay-Liam Lin, and Yu Du

[Comparison of Observed and Simulated Drop Size Distributions from Large-Eddy Simulations with Bin Microphysics](#)

Mikael K. Witte, Patrick Y. Chuang, Orlando Ayala, Lian-Ping Wang, and Graham Feingold

[Diagnosing Convective Dependencies on Near-Storm Environments Using Ensemble Sensitivity Analyses](#)

Christopher A. Kerr, David J. Stensrud, and Xuguang Wang

[The Impact of Tropospheric and Stratospheric Tropical Variability on the Location, Frequency, and Duration of Cool-Season Extratropical Synoptic Events](#)

Hannah E. Attard and Andrea L. Lang

[Heavy Rainfall Associated with Double Low-Level Jets over Southern China. Part II: Convection Initiation](#)

Yu Du and Guixing Chen

[A Phase Locking Perspective on Rossby Wave Amplification and Atmospheric Blocking Downstream of Recurving Western North Pacific Tropical Cyclones](#)

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[An Objective Climatology of Tropical Cyclone Diurnal Pulses in the Atlantic Basin](#)

Sarah D. Ditchek, John Molinari, Kristen L. Corbosiero, and Robert G. Fovell

Application of a Hybrid Statistical–Dynamical System to Seasonal Prediction of North American Temperature and Precipitation

Sarah Strazzo, Dan C. Collins, Andrew Schepen, Q. J. Wang, Emily Becker, and Liwei Jia

A Multiscale Approach to High-Resolution Ocean Profile Observations within a 4DVAR Analysis System

Matthew J. Carrier, John J. Osborne, Hans E. Ngodock, Scott R. Smith, Innocent Souopgui, and Joseph M. D’Addezio

Scale-Selective Precision for Weather and Climate Forecasting

Matthew Chantry, Tobias Thornes, Tim Palmer, and Peter Düben

Ensemble Sensitivity Analysis of the Blocking System over Russia in Summer 2010

Lisa-Ann Quandt, Julia H. Keller, Olivia Martius, Joaquim G. Pinto, and Sarah C. Jones

New Methods for Data Storage of Model Output from Ensemble Simulations

Peter D. Düben, Martin Leutbecher, and Peter Bauer

Global Climatologies of Fronts, Airmass Boundaries, and Airstream Boundaries: Why the Definition of “Front” Matters

Carl M. Thomas and David M. Schultz

Near-Surface Frontogenesis and Atmospheric Instability along the U.S. East Coast during the Extratropical Transition of Hurricane Matthew (2016)

Scott W. Powell and Michael M. Bell

Multiscale Processes Enabling the Longevity and Daytime Persistence of a Nocturnal Mesoscale Convective System

Manda B. Chasteen, Steven E. Koch, and David B. Parsons

Indices of Rank Histogram Flatness and Their Sampling Properties

D. S. Wilks

Quarterly Journal of the Royal Meteorological Society

Accepted Articles

Accepted, unedited articles published online and citable. The final edited and typeset Version of Record will appear in the future.

Systematic Decomposition of the MJO and its Northern Hemispheric Extra-Tropical Response into Rossby and Inertio-Gravity Components

Christian L.E. Franzke, Damjan Jelic, Sukyoung Lee, Steven B. Feldstein

First Published: 30 January 2019

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

First Published: 28 January 2019

The Characteristics of African Easterly Waves Coupled to Saharan Mineral Dust Aerosols

Dustin F.P. Grogan, Christopher D. Thorncroft

First Published: 28 January 2019

Variational integrator for the rotating shallow-water equations on the sphere

Rüdiger Brecht, Werner Bauer, Alexander Bihlo, François Gay-Balmaz, Scott MacLachlan

First Published: 28 January 2019

Effects of a Multilayer Snow Scheme on the Global Teleconnections of the Indian Summer Monsoon

K. Sujith, Subodh Kumar Saha, Archana Rai, Samir Pokhrel, Hemantkumar S. Chaudhari, Anupam Hazra, Raghu Murtugudde, B.N. Goswami

First Published: 28 January 2019

Convective initiation and storm life-cycles in convection-permitting simulations of the Met Office Unified Model over South Africa

W.J. Keat, T.H.M. Stein, E. Phaduli, S. Landman, E. Becker, M.M. Bopape, K.E. Hanley, H.W. Lean, S. Webster

First Published: 28 January 2019

Impact of high-resolution ocean-atmosphere coupling on fog formation over the North Sea

Joachim Fallmann, Huw Lewis, Juan Castillo Sanchez, Adrian Lock

First Published: 28 January 2019

Assessing the predictability of Medicanes in ECMWF ensemble forecasts using an object-based approach

Enrico Di Muzio, Michael Riemer, Andreas H. Fink, Michael Maier-Gerber

First Published: 28 January 2019

Numerical Solution of the Conditionally Averaged Equations for Representing Net Mass Flux due to Convection

Hilary Weller, William McIntyre

First Published: 28 January 2019

Accuracy of current Arctic springtime water vapour estimates, assessed by Raman lidar

J. Totems, P. Chazette, J.-C. Raut

First Published: 28 January 2019

Large-eddy simulation of catchment-scale circulation

Cunbo Han, Slavko Brdar, Siegfried Raasch, Stefan Kollet

First Published: 28 January 2019

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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. Searchable archives are available online.

February 12, 2019

News

Obituary Notice: Walter Munk, World-Renowned Oceanographer, Revered Scientist

February 12, 2019 - Scripps Institution of Oceanography

The legendary Scripps oceanographer defined a field of science and transformed understanding of nature.

[Read MORE](#)

Warren Washington, Michael Mann Win 2019 Tyler Prize

February 12, 2019 - NCAR & UCAR News

The 2019 Tyler Prize for Environmental Achievement—often described as the "Nobel Prize for the environment"—has been awarded to climate scientists Warren Washington of the National Center for Atmospheric Research (NCAR) and Michael Mann of Pennsylvania State University.

[Read MORE](#)

In the Grip of Halsey's Typhoon, Two Captains Fight A Stormy Fate

February 11, 2019 - HistoryNet.com

The waves in the Philippine Sea were monstrous, as winds roared at up to 140 miles per hour. Visibility dropped to near zero.

[Read MORE](#)

The Science Behind Seattle's Historic Snow

February 11, 2019 - Earther - Nature for Nerds - Gizmodo

Seattle is no stranger to wet winters, but usually it falls as drizzle, mist, and other forms of liquid precipitation. This week, though, more than a foot of snow has turned the Emerald City white.

[Read MORE](#)

Hawaii Storm Might Have Set the State's All-Time Record Low; Snow Fell on Maui, Too

February 11, 2019 - The Weather Channel

An unusually intense Hawaii storm might have broken a couple of all-time records for cold and snow in our 50th state.

[Read MORE](#)

Extreme weather is sucking the life from your electric car

February 10, 2019 - The Verge

As more affordable and longer-range electric cars hit the market, the long-predicted shift to battery-powered transportation seems poised to actually happen. But a serious challenge remains: battery-sucking cold weather.

Read MORE

Hurricane Florence was among the costliest disasters on record. Here's NOAA's tally

February 8, 2019 - TheState.com

The final tally on damage from Hurricane Florence is higher than the costs from 2016's Hurricane Matthew and Hurricane Floyd in 1999 combined, new federal estimates show.

Read more here: <https://www.thestate.com/news/state/north-carolina/article225974185.html#storylink=cpy>

Read MORE

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Drought, deluge turned stable landslide into disaster

February 8, 2019 - Phys.org

"Stable landslide" sounds like a contradiction in terms, but there are indeed places on Earth where land has been creeping downhill slowly, stably and harmlessly for as long as a century. But stability doesn't necessarily last forever.

Read MORE

Open-access satellite data allows tracking of seasonal population movements

February 7, 2019 - ScienceDaily

A massive release of passive-surveillance satellite data of nighttime lights could help researchers in fields ranging from agriculture to epidemiology.

Read MORE

NOAA and NCAR partner on new, state-of-the-art U.S. modeling framework

February 7, 2019 - NOAA

The United States is making exciting changes to how computer models will be developed in the future to support the nation's weather and climate forecast system.

[Read MORE](#)

[How will the Amazon deal with more severe droughts?](#)

February 7, 2019 - Futurity.org

New research digs into the Amazon rainforest's response to droughts in order to better predict how forest growth and physiology will affect tree diversity and, ultimately, the planet's climate.

[Read MORE](#)

[A Look At 2018's Billion Dollar Natural Disasters](#)

February 7, 2019 - Unofficial Networks

Since 1980, the U.S. has sustained 241 weather and climate disasters where the overall damage costs reached or exceeded \$1 billion (including adjustments based on the Consumer Price Index, as of January 2019). The cumulative cost for these 241 events exceeds \$1.6 trillion.

[Read MORE](#)

[Melting Ice Sheets Will Really Mess With a Fundamental Ocean Current](#)

February 6, 2019 - Discover Magazine Blogs

Overall, "ice sheet meltwater will disrupt global ocean circulation and change climate patterns around the world," Golledge said.

[Read MORE](#)

[Hey Florida, lightning strike capital of the U.S., say goodbye to Dr. Lightning](#)

February 6, 2019 - Miami Herald

Last month, during the government shutdown and after nearly 42 years with the National Weather Service, Jensenius, better known as Dr. Lightning, retired.

Read more here:

<https://www.miamiherald.com/news/local/environment/article225578630.html#storylink=cpy>

Read MORE

Warning Scale Unveiled for Dangerous Rivers in the Sky

February 5, 2019 - Scientific American

Several times a year an atmospheric river—a long, narrow conveyor belt of storms that stream in relentlessly from the Pacific Ocean—drops inches of rain or feet of snow on the U.S. west coast.

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My latest WeatherEye from John Maunder

<https://www.sunlive.co.nz/blogs/12968-tauranga-january-average-afternoon-temperatures-19142019.html>

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