

New Zealand weather and climate news

Clips courtesy of MetService Library.

MetService focus

Spring weather is lurking around the corner, dull weather temporary

MetService meteorologist Leigh Matheson told the Herald the low weather system will move on, making way for more traditional spring weather.

https://www.nzherald.co.nz/nz/news/article.cfm?c_id=1&objectid=12122134

Tuesday Talks: Aviation Weather: Surface to Stratosphere

Space Place at Carter Observatory, 40 Salamanca Rd, Kelburn, Wellington

Tuesday 11 September 2018 7:00pm – 8:00pm

Flying well above the highest clouds aboard a modified Boeing 747, the NASA Stratospheric Observatory for Infrared Astronomy (SOFIA) gets an unimpeded view of the cosmos.

However, to safely reach that altitude and come back down again, mission planners require detailed forecasts of weather conditions along the route. Join Ravi Kandula from MetService as he discusses aviation weather phenomena, and why accurate forecasts are as important to passenger aircraft as they are for stratospheric flights.

Included in general admission.

<https://www.eventfinda.co.nz/2018/tuesday-talks-aviation-weather-surface-to-stratosphere/wellington>

New Zealand's oldest newspaper is having a change of name.

NZME announced today the spelling of their titles Wanganui Chronicle, Wanganui Midweek and Wanganui Chronicle Weekend Edition are all changing to include an 'h' as in Whanganui.

The change to the 162-year-old paper brought the masthead in line with all government departments in the area, as well as the police and courts, MetService, media and many other businesses and organisations.

<https://www.newstalkzb.co.nz/news/national/chronicle-puts-the-h-in-whanganui-in-time-for-maori-language-week/>

Slips and floods across the road network

Road crews are on their third day of clean up in Hastings as the rain continues to fall in Hawke's Bay.

As of Friday morning (September 7), almost 50 rural roads across the district were affected; some in multiple places.

<https://www.hastingsdc.govt.nz/our-council/news/latest-news/article/1067>

After the southerlies, it's feeling like spring - maybe even a hint of summer

Last week's southerlies are well in the rear-view mirror, as a warm spell settles over the country.

"There's a ridge of high pressure over central and northern New Zealand, and a front moving onto the South Island today," MetService meteorologist Hannah Moes said.

<https://www.stuff.co.nz/national/107038968/After-the-southerlies-its-feeling-like-spring-maybe-even-a-hint-of-summer>

Te wiki o te reo Māori: how brands are embracing the country's native tongue this week

MetService has brought back its location translations for the week, with place names showing in te reo Māori on the site's main map. MetService New Zealand is also posting daily weather updates on its Facebook page, incorporating te reo.

<https://idealog.co.nz/venture/2018/09/te-wiki-o-te-reo-maori-how-brands-are-embracing-countrys-native-tongue-week>

Dramatic footage shows waves hammering Haumoana, Hawke's Bay

Video footage has captured huge swells descending on Napier's coastline, after a large storm passed over the region.

Peak Video shot the footage, which shows coastal properties on Haumoana, south of Napier, being hammered by the waves on Sunday evening.

<https://www.stuff.co.nz/dominion-post/news/hawkes-bay/107021280/dramatic-footage-shows-waves-hammering-haumoana-hawkes-bay>

Great summer on the cards, says Herman the Tortoise

She's been predicting the weather for 32 years longer than the MetService, and Herman the Tortoise said we're in for a great summer.

Herman, named before her female gender was known, has been telling owner Alf Hoyle about the weather for the upcoming seasons for a staggering 58 years now, thanks to when she decides it's time to hibernate, or when it's time to wake up.

<https://www.stuff.co.nz/oddstuff/106998011/great-summer-on-the-cards-says-herman-the-tortoise>

MetOcean

Survey: Ocean and Coastal Photography is Big Business

A new report by social scientists at NOAA Fisheries in the U.S. has found that viewing or photographing the ocean was the top activity for ocean lovers in the U.S. in number of participants, days spent and how much people paid to do it.

<https://maritime-executive.com/article/survey-ocean-and-coastal-photography-is-big-business>

Critical Southern Ocean climate model biases traced to atmospheric model cloud errors

Patrick Hyder, et al

Nature Communications volume 9, Article number: 3625 (2018)

The Southern Ocean is a pivotal component of the global climate system yet it is poorly represented in climate models, with significant biases in upper-ocean temperatures, clouds and winds. Combining Atmospheric and Coupled Model Inter-comparison Project (AMIP5/CMIP5) simulations, with observations and equilibrium heat budget theory, we show that across the CMIP5 ensemble variations in sea surface temperature biases in the 40–60°S Southern Ocean are primarily caused by AMIP5 atmospheric model net surface flux bias variations, linked to cloud-related short-wave errors. Equilibration of the biases involves local coupled sea surface temperature bias feedbacks onto the surface heat flux components. In combination with wind feedbacks, these biases adversely modify upper-ocean thermal structure. Most AMIP5 atmospheric models that exhibit small net heat flux biases appear to achieve this through compensating errors. We demonstrate that targeted developments to cloud-related parameterisations provide a route to better represent the Southern Ocean in climate models and projections.

https://www.nature.com/articles/s41467-018-05634-2?WT.feed_name=subjects_physical-oceanography

NIWA

No weather drama on horizon

Pastoral farmers, croppers and horticultural growers can take heart that the long-range climate outlook for the Gisborne-East Coast area is for nothing dramatic.

The National Institute of Atmospheric and Water Research (Niwa) says guidance from all the major climate institutions indicates the chance of an El Nino developing the next three months has dropped further and if one does develop, it is thought it will only be of weak or moderate strength.

<http://gisborneherald.co.nz/localnews/1443867-135/no-weather-drama-on-horizon>

Weatherwatch

Claim MetService engaging in false advertising, complaint laid to ComCom

By the Otago Daily Times --- Private forecasting company WeatherWatch claims MetService is engaging in "misleading advertising" and has taken the state-owned enterprise to the Commerce Commission.

The complaint relates to delays in passing on publicly available weather information that allows other forecasting companies to operate.

<https://www.weatherwatch.co.nz/content/claim-metservice-engaging-false-advertising-complaint-laid-commerce-commission>

Extreme weather (and other news) – Australia and Pacific

Treat weather warning with seriousness it deserves: PM

FIJI'S Prime Minister Voreqe Bainimarama has reiterated the importance of taking heed of weather warnings and instructions issued by authorities.

<http://www.fijitimes.com/treat-weather-warning-with-seriousness-it-deserves-pm/>

Severe thunderstorms wreak havoc on Sydney

Hailstones have pelted Sydney as thunderstorms sweep across parts of New South Wales, blanketing streets in thick white ice.

<https://www.9news.com.au/national/2018/09/07/16/09/sydney-weather-severe-thunderstorm-warning-issued-bureau-of-meteorology>

Guam and CNMI prepare for Typhoon Mangkhut

Guam and the Northern Marianas are preparing for Typhoon Mangkhut.

Schools and universities in the two US territories will be closed today as the storm approaches.

<https://www.radionz.co.nz/international/pacific-news/366056/guam-and-cnmi-prepare-for-typhoon-mangkhut>

Climate change report warns of increased demand on emergency services in Queensland

An increased risk of fire and flood across the state will put extra demand on emergency services and require a "significant financial commitment", a new climate change strategy has revealed.

<http://www.abc.net.au/news/2018-09-07/queensland-climate-change-strategy-increased-fire-flood-risk/10209896>

A 30-degree day could be on the cards with Sydney's first burst of spring heat

Spring's first burst of heat for Sydney could produce the first 30-degree readings of the city, as warm, dry winds nudge fire danger levels into the "very high" ratings for parts of NSW.

On current forecasts, Sydney can expect 28 degrees at Observatory Hill and 30 degrees in Richmond and Penrith on Wednesday, the Bureau of Meteorology said.

<https://www.smh.com.au/environment/weather/a-30-degree-day-could-be-on-the-cards-with-sydney-s-first-burst-of-spring-heat-20180911-p5032n.html>

Drier weather forecast for Tonga

Tuesday, September 11, 2018 - 21:23

Nuku'alofa, Tonga

With drier weather than normal, forecast for the next few months, Tonga Meteorological Service is urging people to conserve water as conditions favour the emergence of El Nino.

<https://matangitonga.to/2018/09/11/drier-weather-forecast-tonga>

Over a million litres of water delivered to parched Fiji islands

Over one million litres of water have been distributed by the Fiji government to islands to the northwest of Viti Levu due to a prolonged dry spell.

<https://www.radionz.co.nz/international/pacific-news/366237/over-a-million-litres-of-water-delivered-to-parched-fiji-islands>

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

Monsoonal rains devastate Southern India, triggering \$4B in losses

Kerala state experienced the worst flooding since 1924, leaving over 500 people dead or missing.

<https://www.propertycasualty360.com/2018/09/11/monsoonal-rains-devastate-southern-india-triggerin/?slreturn=20180812163912>

Super Typhoon Mangkhut plows toward the Philippines, Taiwan with damaging winds and flooding rain

Mangkhut will bring the threat for flooding rainfall and damaging winds from the Philippines and Taiwan to China late this week into early next week.

Mangkhut is known as Ompong in the Philippines.

<https://www.accuweather.com/en/weather-news/super-typhoon-mangkhut-plows-towards-philippines-taiwan-threatening-damaging-winds-and-flooding-rain/70006031>

Signal No 3 to be issued if Tropical Storm Barijat edges closer to Hong Kong as Super Typhoon Mangkhut looms in distance

The super typhoon has a 50 per cent chance of passing over Hong Kong in the next nine days

<https://www.scmp.com/news/hong-kong/health-environment/article/2163661/tropical-storm-barijat-prompts-hong-kong>

Philippines: 10 million people in the path of Mangkhut

With the predicted path of the super typhoon, it could also hit Taiwan and Hong Kong next.

<https://www.aljazeera.com/news/2018/09/philippines-10-million-people-path-mangkhut-180912120933417.html>

Extreme weather (and other news) – Americas and Europe

Extreme Flooding from Florence Likely, Due to Convergence of Threats

Compound flooding can exacerbate the impacts from storm surge and rain

Hurricane Florence is bearing down on the U.S as a major hurricane that could inundate the coast with up to 13 feet of surging ocean water and more than two feet of rain.

[Read more here](#)

'Don't play games with it': Hurricane Florence takes aim at US Carolinas coast

Communities along the Carolina coast buttoned up against the onslaught of Hurricane Florence as forecasters on Wednesday (Thursday NZ Time) warned that the monstrous storm could hesitate just offshore for days - punishing a longer stretch of coastline harder than previously feared - before pushing inland over the weekend.

<https://www.stuff.co.nz/world/americas/107038861/dont-play-games-with-it-hurricane-florence-takes-aim-at-us-carolinas-coast>

WATCH: Raleigh meteorologist tells NewsChannel 9: Hurricane Florence is "uncharted territory"

RALEIGH, N.C. (WSYR-TV) - As Hurricane Florence churns toward North Carolina, meteorologists are preparing for a long haul at work.

WNCN meteorologist Paul Hagen will be babysitting the Doppler radar for what he considers "uncharted territory."

<https://www.localsyr.com/news/local-news/watch-raleigh-meteorologist-tells-newschannel-9-hurricane-florence-is-uncharted-territory-/1434999007>

Olivia to blast Hawaii with flooding rain, dangerous seas and wind through Wednesday evening

Tropical Storm Olivia will bring the likelihood of flooding and mudslides on O'ahu, Moloka'i and Maui through Wednesday evening.

<https://www.accuweather.com/en/weather-news/olivia-to-blast-hawaii-with-flooding-rain-gusty-winds-and-dangerous-seas-through-wednesday/70006012>

As climate risks surge, flood barriers rise in Britain

The risks of tidal flooding are worsening across much of Britain - and that is leading to more protective barriers being put in place

<http://news.trust.org/item/20180906120046-peicq/>

International news and research

Not ready to wait for one more error, Government turns to ISRO for weather forecast data

It is likely the Hyderabad-based National Remote Sensing Centre (NRSC) will be providing the Kerala government with the requisite data.

<http://www.newindianexpress.com/specials/2018/sep/10/not-ready-to-wait-for-one-more-error-government-turns-to-isro-for-weather-forecast-data-1869838.html>

How are BBC weather forecasts made?

The BBC no longer goes to the Met Office for its weather updates, instead relying on a company called MeteoGroup – find out more about how the process works here

<https://www.radiotimes.com/news/tv/2018-09-10/how-are-bbc-weather-forecasts-made/>

Annual Seminar focuses on assimilating Earth observations into models

Dinand Schepers joined ECMWF in 2015 to work on coupled, satellite-era data assimilation.

ECMWF's Annual Seminar on 'Earth system assimilation' opened on 10 September.

One of the speakers at the four-day event, ECMWF scientist Dinand Schepers, trained as an aerospace engineer before moving into Earth observations and their assimilation into Earth system models.

<https://www.ecmwf.int/en/about/media-centre/news/2018/annual-seminar-focuses-assimilating-earth-observations-models>

Hurricane Florence is coming, but your phone's weather app won't tell you that

A dangerous storm is barreling toward the Southeast, more than a million people have been told to evacuate South Carolina's coast, and if you checked your phone's weather app, you'd hardly know it.

https://www.postandcourier.com/news/hurricane-florence-is-coming-but-your-phone-s-weather-app/article_f7179cc2-b542-11e8-a0c4-0b932605806b.html

Isaac to hit Lesser Antilles Thursday, strong Florence heads to US coast

KINGSTON, Jamaica — The Meteorological (Met) Service of Jamaica is reporting that Tropical Storm Isaac is expected to move over the Lesser Antilles Thursday and enter the central Caribbean Sea by this weekend.

[http://www.jamaicaobserver.com/latestnews/Isaac to hit Lesser Antilles Thursday, strong Florence heads to US coast](http://www.jamaicaobserver.com/latestnews/Isaac%20to%20hit%20Lesser%20Antilles%20Thursday,%20strong%20Florence%20heads%20to%20US%20coast)

What Is a Category 4 Hurricane? How the Storms Are Classified

For the latest storm coverage, check out [Wednesday's live updates](#).

As Florence spins toward the East Coast, meteorologists say that the hurricane, now a Category 4 storm, [could strengthen](#) to become a Category 5.

<https://www.nytimes.com/2018/09/11/us/hurricane-categories.html>

WMO

WMO supports major UN climate change initiative

The world risks crossing the point of no return on climate change, with disastrous consequences for people across the planet and the natural systems that sustain them, the United Nations [Secretary-General António Guterres](#) warned on Monday, calling for more leadership and greater ambition for climate action, to reverse course.

[Read more here](#)

WMO Update: 70% chance of El Niño by end of 2018

Trend continues of warmer than normal conditions, accompanied by extreme weather

Geneva, 10 September 2018 - There is a 70% chance of an El Niño developing by the end of this year, according to the [latest update from the World Meteorological Organization \(WMO\)](#). Its intensity is currently uncertain, but a strong event appears unlikely.

[Read more here](#)

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

1,400 died across India due to rain-related incidents and floods in three months

The Kerala floods alone accounted for 488 deaths and Uttar Pradesh recorded the second-highest number of fatalities due to rain-related incidents at 254.

<https://www.hindustantimes.com/india-news/1-400-died-across-india-due-to-rain-related-incidents-and-floods-in-three-months/story-IN1bO6YAudFc7YQ4NMpxlO.html>

'25% of all accidental deaths in India are weather-related'

Men and elderly at maximum risk due to extreme weather events, says study conducted across the country from 2001-2014

Weather-related deaths are on the rise globally and figures in India stand at a staggering 25%, noted a study conducted across the country from 2001-2014 by research-based organisation Population Council.

<https://www.thehindu.com/news/cities/Delhi/25-of-all-accidental-deaths-in-india-are-weather-related/article24905199.ece>

Northern Thailand Meteorological Center Warns Residents of the Early Arrival of Cold and Dry Seasons

By Editor on September 7, 2018Comments Off on Northern Thailand Meteorological Center Warns Residents of the Early Arrival of Cold and Dry Seasons

The rainy season for the North will end sooner with rain expected to ease by the end of this month and substantially ease next month with the onset of the cold season to be followed by dry season

<https://www.chiangraitimes.com/northern-thailand-meteorological-center-warns-residents-of-the-early-arrival-of-cold-and-dry-seasons.html>

Typhoon Mangkhut strongest threat to Taiwan so far this year: experts

Storm likely to hit Taiwan during the Sept. 15-16 weekend

<https://www.taiwannews.com.tw/en/news/3525371>

Extreme weather (and other news) – Americas and Europe

Summer heatwaves made twice as likely by climate change

Met Éireann part of huge global effort to provide future climate projections

<https://www.irishtimes.com/opinion/summer-heatwaves-made-twice-as-likely-by-climate-change-1.3619307>

Third tropical storm swirling in the Atlantic; Florence, Helen to become hurricanes today

KINGSTON, Jamaica — A third tropical storm has formed in the eastern Atlantic Ocean.

The Meteorological Service of Jamaica said at 4:00 am Sunday, Tropical Storm Isaac was centred about 2,475 kilometers east of the Windward Islands.

http://www.jamaicaobserver.com/latestnews/Third_tropical_storm_swirling_in_the_Atlantic;_Florence,_Helen_to_become_hurricanes_today?profile=1228

At Least Three Named Storms Will Affect Parts of the U.S. This Week

At a Glance

Three tropical cyclones will be affecting U.S. states or territories this week.

It's unusual to have U.S. tropical threats in the Pacific and Atlantic at the same time.

There is still uncertainty about how each event might unfold.

<https://weather.com/safety/hurricane/news/2018-09-07-hurricane-tropical-storm-florence-olivia-hawaii-forecast>

International news and research

PWD to build weather-resistant roads

To adopt four technologies ensuring durability, says Principal Secretary, Public Works

<https://www.thehindu.com/news/cities/Kochi/pwd-to-build-weather-resistant-roads/article24889531.ece>

Atmosphere and marine observation station to be built

The Chinese Academy of Sciences Institute of Atmospheric Physics and Laoting County have reached an agreement to build an atmosphere and marine research station and an industrial base in this north China county.

http://www.china.org.cn/china/2018-09/07/content_62716227.htm

Flood, drought and satellites: online tools boost climate cooperation

Online data is helping water authorities collaborate across borders to fight the impacts of climate change

It's a cycle that is becoming all too common around the globe. A swing from flood to drought and back that costs nations billions of dollars every year and threatens not just the livelihoods but the very lives of millions of people.

<https://moderndiplomacy.eu/2018/09/08/flood-drought-and-satellites-online-tools-boost-climate-cooperation/>

Girls in STEM | Forecasting weather for the United States Navy

Forecasting for the entire U.S. Navy fleet is daunting, but that's why Northeast Ohio native Lt. (JG) Sierra Werling loves doing it.

<https://www.wkyc.com/article/tech/science/girls-in-stem/girls-in-stem-forecasting-weather-for-the-united-states-navy/95-590937819>

AMT Discussions

A decade of CH₄, CO and N₂O in situ measurements at Lauder, New Zealand: assessing the long-term performance of a Fourier transform infra-red trace gas and isotope analyser by Dan Smale, Vanessa Sherlock, David W. T. Griffith, Rowena Moss, Gordon Brailsford, Sylvia Nichol, and Michael Kotkamp <https://www.atmos-meas-tech-discuss.net/amt-2018-274/>

Short Summary: We present a ten-year (Jan 2007-Dec 2016) time series of continuous in situ measurements of methane, carbon monoxide and nitrous oxide made by an in situ Fourier transform infra-red trace gas and isotope analyser operated at Lauder, New Zealand. We perform a practical evaluation of multi-year performance of the analyser and report on operational methodology, measurement precision, reproducibility, accuracy and instrument reliability.

3 Reasons Meteorologists Are Talking About Hurricane Florence

Honestly, a small part of my answer to the question in the title is "I am not sure." However, the vast majority of me knows there is a mix of necessary attention, social media hyperventilation, and curiosity whenever there is a hurricane in the Atlantic, especially one that reaches major hurricane status (category 3 or higher). There are times when a "reality check" perspective is needed.

<https://www.forbes.com/sites/marshallshepherd/2018/09/06/3-reasons-meteorologists-are-talking-about-hurricane-florence/#50f079cb685b>

New approach could help improve severe-storm forecasting

A geostationary hyperspectral infrared sounder can provide significant support to meteorologists to improve local severe storm forecasting, according to Dr. Jun Li, distinguished scientist at the Space Science and Engineering Center of the University of Wisconsin-Madison, and one of the authors of a recently published study. Read more at: <https://phys.org/news/2018-09-approach-severe-storm.html#iCp>

When it rains, snake bites soar

Rattlesnakes and other venomous reptiles may bite more people during rainy years than in seasons wracked by drought, a new study shows.

<https://www.sciencedaily.com/releases/2018/09/180905113638.htm>

WMO

Cooperation is a must for adaptation to and mitigation of climate change - Finnish Meteorological Institute

The consequences of this summer's weather have included droughts, heatwaves and wildfires, straining the society's capacity to cope with such perils. Was this summer just an exceptional freak event or is this due to climate change? And if this is due to climate change – what can be done?

[Read more here](#)

Business development / commodities / infrastructure etc

Food price hikes of £2 billion due to extreme weather are completely avoidable – here's how

Extreme hot and cold weather in the UK will have driven up average household food prices by £45m a week in 2018, according to [recent research](#) from the Centre for Economic and Business Research. Cue numerous [press articles](#) laying out the details of the damage, focusing almost entirely on the supply and demand problems with farms. In reality, this story is not quite as it seems.

<https://theconversation.com/food-price-hikes-of-2-billion-due-to-extreme-weather-are-completely-avoidable-heres-how-102811>

Weather continues to influence retail meat purchases

During the 12 weeks ending August 12, meat retail sales continued to follow trends set out in the past two updates, according to data from Kantar Worldpanel. With much of the country continuing to have experience warm, dry weather, BBQs will have remained popular.

<http://www.pig-world.co.uk/news/weather-continues-to-influence-retail-meat-purchases.html>

Aviation

Rocket Report: Lots of losers in small launch, Air Force award, Red (Bull) Mars

"There are more than 100 small launch vehicles in development."

<https://arstechnica.com/science/2018/09/rocket-report-lots-of-losers-in-small-launch-air-force-award-red-bull-mars/>

Aviation

Out-of-service weather sites put pilots in 'dangerous position,' says float plane operator

Lack of current weather data puts passengers and pilots at risk, claims aviator

<https://www.cbc.ca/news/canada/british-columbia/out-of-service-weather-sites-put-pilots-in-dangerous-position-says-float-plane-operator-1.4813537>

SATS Teams Up With Jet Aviation and Universal Aviation Singapore at Seletar Airport

Singapore, 10 September 2018 – SATS Ltd. (SATS), Asia's leading provider of Gateway Services and Food Solutions, has teamed up with Jet Aviation, a leading global business aviation services provider, and Universal Aviation Singapore, a member of Universal Aviation, the ground support division of Universal Weather and Aviation, Inc., to operate Seletar Airport's private jet centre.

https://www.aviationpros.com/press_release/12429240/sats-teams-up-with-jet-aviation-and-universal-aviation-singapore-at-seletar-airport

The New Rules of Weather for Aviation Operations

Operations managers in all categories of aviation, from commercial, to charter, to business, face huge challenges with the weather. The eBook outlines some of the technology tools that are critical for safe and efficient ground operations, and provides tips from aviation industry leaders.

<https://www.intelligent-aerospace.com/whitepapers/2018/09/the-new-rules-of-weather-for-aviation-operations.html>

Hyperlocal weather forecasting service improves airline operations

One morning last February, conventional weather forecasters were calling for an 11 a.m. end to a snowstorm that was hitting Boston Logan Airport. But the operations team at JetBlue, aided by a new interface that forecasts weather at a hyperlocal level, was looking at a more optimistic prognostication, that the storm would end closer to 8 a.m.

<https://www.travelweekly.com/Travel-News/Airline-News/Hyperlocal-weather-forecasting-service-improves-airline-operations>

Farming/horticulture

Farmers use traditional means to forecast highly unpredictable weather

For some farmers, the giveaway is when the frogs croak continuously in a certain way. For others, it is seeing flowers breaking out on the acacia trees, or the reappearance of bees.

But for Flora Wanja, a resident of Kamatungu village, some 180km northeast of Nairobi, the surest sign that the rains are coming is the behaviour of a particular insect.

<https://www.nation.co.ke/business/seedsofgold/Farmers-use-traditional-means-predict-unpredictable-weather/2301238-4752452-qtypipz/index.html>

Transport/roading/shipping/freight

Niles Buys High Tech Weather Sensors To Aid Winter Snow Fight

Although it felt like 95 degrees Tuesday, Aug. 28, Niles village trustees know winter is coming. That night, village trustees approved a \$11,700 contract for an advanced road weather information system to aid snow fighting efforts.

<https://www.journal-topics.com/articles/niles-buys-high-tech-weather-sensors-to-aid-winter-snow-fight/>

Innovation and technologies (inc data and new products)

CustomWeather Introduces Weather Data API Commerce Site for Developers

SAN FRANCISCO--(BUSINESS WIRE)--CustomWeather, Inc., a premier, specialized provider of high-resolution weather data and alert services, announced that it has launched its new Weather Data API Commerce Site, created specifically for developers. In response to client requests, the new commerce site allows for easy online purchase of CustomWeather weather data products, with data packages designed to suit requirements ranging from just a few requests per month to

the most robust weather data demands of the largest applications. Subscriptions are monthly and can easily be adjusted to suit a client's changing requirements. Free trials are also available.

<https://www.businesswire.com/news/home/20180910005253/en/CustomWeather-Introduces-Weather-Data-API-Commerce-Site>

Climate change / global warming / sea level rise

Urgency needed to avoid civil unrest from climate pressure in Pacific

A climate scientist says the inclusion of climate change as a security issue by Pacific Island leaders is an opportunity to push for more urgent action in the region.

<https://www.radionz.co.nz/international/pacific-news/366093/urgency-needed-to-avoid-civil-unrest-from-climate-pressure-in-pacific>

Te reo

Spark launches Kupu: a picture to Te Reo Māori translation app

Kupu: Take a photo, learn a language

To coincide with Te Wiki o te Reo Māori, Spark and Te Aka Māori Dictionary have launched Kupu, an interactive mobile app powered by Google that helps people learn Te Reo Māori translations by exploring the objects around them.

<http://www.scoop.co.nz/stories/BU1809/S00218/spark-launches-kupu.htm>

Emergency preparedness / disaster planning / resilience

From \$6.4b to \$171m: EQC's disaster fund forecast to run out next year

The Christchurch and Kaikōura earthquakes have blown through the Earthquake Commission's funds, expected to run out early next year.

EQC's National Disaster Fund has now dropped below \$200 million, the point the Government moves to step-in, and is on track to be fully depleted in the first quarter of next year.

<https://www.stuff.co.nz/national/politics/107017288/From-6-4b-to-171m-EQCs-disaster-fund-forecast-to-run-out-next-year>

New Survey Emphasizes Need for Emergency Weather Preparedness

MINNEAPOLIS, Sept. 11, 2018 /PRNewswire/ -- Cummins Inc. (NYSE: CMI) wants everyone to be better prepared for weather emergencies, as we begin National Preparedness Month

<https://markets.businessinsider.com/news/stocks/new-survey-emphasizes-need-for-emergency-weather-preparedness-1027525470>

Health

Pollen tracker upgrade gives more power to the people ahead of hay fever season

There's some good news to come out of Australia's drier-than-average winter.

It was the fifth-warmest winter on record and the eighth-driest in New South Wales.

But for anyone who suffers from springtime sniffles, a dry winter means a lower than average pollen count come spring.

<http://www.abc.net.au/news/2018-09-09/pollen-tracker-upgrade-ahead-of-hay-fever-season/10204644>

Transport/roading/shipping/freight

Simple mistakes such as a driver dropping a hot pie can kill, crash data shows

Dropping a hot pie in your lap while driving could be the difference between life and death, a road safety leader says.

Half of the deaths on Kiwi roads are because an ordinary driver made a simple mistake, according to NZ Transport Agency safety and environment director Harry Wilson.

<https://www.stuff.co.nz/motoring/news/106841047/simple-mistakes-such-as-a-driver-dropping-a-hot-pie-can-kill-crash-data-shows>

Innovation and technologies (inc data and new products)

Tech guru says Sydney Harbour Bridge is way smarter than most people think

IT'S one of Australia's most cherished landmarks, but a guru has lifted the lid of a secret side of it which very few people know.

<https://www.news.com.au/technology/innovation/tech-guru-says-sydney-harbour-bridge-is-way-smarter-than-most-people-think/news-story/31c7d5a514a1a51ba8c36b8929562037>

Climate change / global warming / sea level rise

Hothouse climate tipping point

Scientists from an international study are warning that Earth is at risk of entering a hothouse climate that could lead to global average temperatures of up to five degrees and sea levels rising more than 10 metres.

Lead researcher, Professor Will Steffen from Australian National University has lead an international study on global warming.

<https://www.radionz.co.nz/national/programmes/ninetoon/audio/2018661008/hothouse-climate-tipping-point>

BBC admits 'we get climate change coverage wrong too often'

Briefing sent to editorial staff on global warming says 'you do not need a denier to balance the debate'

<https://www.theguardian.com/environment/2018/sep/07/bbc-we-get-climate-change-coverage-wrong-too-often>

Journals and articles online

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Below-cloud scavenging of fine and coarse aerosol particles by rain: the role of raindrop size

Carlos Blanco-Alegre, Amaya Castro, Ana I. Calvo, Fernanda Oduber, Elisabeth Alonso-Blanco, Delia Fernández-González, Rosa María Valencia-Barrera, Ana María Vega-Maray, Roberto Fraile

First Published: 03 September 2018

On Scale Interactions between the MJO and Synoptic Scale

S. Dubey, T. N. Krishnamurti, V. Kumar

First Published: 03 September 2018

Climatology of Extreme Cold Events in the central Peruvian Andes during Austral Summer: Origin, Types and Teleconnections

Juan Sulca, Mathias Vuille, Paul Roundy, Ken Takahashi, Jhan-Carlo Espinoza, Yamina Silva, Ricardo Zubieta

First Published: 30 August 2018



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.

A comparison of hybrid variational data assimilation methods for global NWP

Andrew C. Lorenc, Mohamed Jardak

First Published: 06 September 2018

Below-cloud scavenging of fine and coarse aerosol particles by rain: the role of raindrop size

Carlos Blanco-Alegre, Amaya Castro, Ana I. Calvo, Fernanda Oduber, Elisabeth Alonso-Blanco, Delia Fernández-González, Rosa María Valencia-Barrera, Ana María Vega-Maray, Roberto Fraile

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HBR

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<https://hbr.org/archive-toc/BR1805>

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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](#).

September 11, 2018

Climate Change Drives Bigger, Wetter Storms — Storms Like Florence

September 11, 2018 - Southern California Public Radio

. "We have global warming, and so this actually makes these storm bigger and more intense," he explains. Humans burn fossil fuels in our

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Keys over Labor Day in 1935 is still considered one of the "most intense" storm in US history, based on wind speeds and pressure. The wind

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\$300. Others reported they didn't believe the storm would be that bad, or worried about intense evacuation traffic. SIGN UP Be the first

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that the NHC forecasts a powerful, destructive storm hitting the Southeastern U.S. early Friday with intense wind speeds of 145 mph, which

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teamed with German colleagues from the Federal Highway Research Institute, the German Meteorological Service, and the University of Freiburg

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1 hurricane. The animation comes from the Cooperative Institute for Meteorological Satellite Studies. "An eye structure appeared for brief

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carried out in the context of the DFG-funded Collaborative Research Center "Waves to Weather", Stephan Rasp of the Institute of Theoretical

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SSEC. The data above comes from the SSEC's Cooperative Institute for Meteorological Satellite Studies (CIMSS) TROPIC website, which you can

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and software developers getting this system up and running but not meteorologists to lead the weather research.' I offered to do that and he

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Impacts on Alaska," Bulletin of the American Meteorological Society 99 (1) (2018): S39–S43, available at <https://journals.ametsoc.org/doi/>

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[Hurricanes are unstoppable deadly forces of nature. This satellite could help protect us from them](#)

September 8, 2018 - Newsweek

of the University of Wisconsin-Madison, an expert on hurricane research and environmental satellites, told Newsweek. "Any new observations,

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September 7, 2018 - The United States Army

forecasting technology continually improves and, according to Hilderbrand, advances in supercomputing, newly deployed weather satellites and

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from Glaciers and heat is increasing, so the consequence would be more intense storms, floods and instability. We could pro-actively re-

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experience is a stark reminder that the perils from an intense hurricane don't end when the storm does. Hurricane Harvey dumped 50 inches of

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System) AEMN (Global Ensemble Forecast System) HWRF (Hurricane Weather Research and Forecast System) The worst models were: CTCL (NRL

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[Can we use ocean temperatures in the Arctic to predict temperatures in Europe?](#)

September 6, 2018 - Bjerknes Centre

Can we use ocean temperatures in the Arctic to predict temperatures in Europe? This question was investigated in a new paper by Erik Kolstad and Marius Årthun in Journal of Climate. The answer is: yes and no.

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to deliver essential information to improve our knowledge of atmospheric dynamics, further climate research and improve weather forecasts.

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years on record, according to a report released by the American Meteorological Society. The cumulative effect of the 2017 storms left

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of 27 extreme weather events in 2016, researchers for the American Meteorological Society have correlated 21 of them to human-caused climate

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climate records" — make it valuable for weather forecasting and climate research. Not to mention the meteorologists' willingness to go out,

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<https://www.sunlive.co.nz/blogs/12503-tauranga-august-average-afternoon-temperatures-19132018.html>

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