

New Zealand weather and climate news

Courtesy of MetService

(MetService focus)

'Shock to the system' - Kiwis warned to brace for coldest winter 'for quite some time'

The sharp dip in temperatures this week does point to one of the coldest New Zealand winters in years, according to a MetService meteorologist.

<https://www.tvnz.co.nz/one-news/new-zealand/shock-system-kiwis-warned-brace-coldest-winter-quite-some-time>

Hawke's Bay weather set to be cold and icy

MetService meteorologist Tom Adams said Hawke's Bay is set to experience temperatures between 4C-6C for the next two weeks.

"We do have a few snow warnings out, but not so much for the Hawke's Bay area. However there will definitely be snow on the Kaweka Ranges and of course the Central Plateau.

https://www.nzherald.co.nz/hawkes-bay-today/news/article.cfm?c_id=1503462&objectid=12057154

Students get day off as snow stops school buses in Northern Southland

MetService Meteorologist Tom Adams said the cooler temperatures were a result of a barrage multiple weather systems.

<https://www.stuff.co.nz/southland-times/news/104137937/students-get-day-off-as-snow-stops-school-buses-in-northern-southland>

Heavy snow in deep south, ice closes North Island's Desert Road

"Winter has finally arrived ... The next few days are going to bring some good snow for the ski fields in the South Island," MetService meteorologist Michael Martens said.

"The front has moved onto Fiordland and is now crossing Otago, and even Queenstown is reporting a little bit of snow at the moment," he said shortly after 5am Thursday.

<https://www.stuff.co.nz/national/104164229/heavy-snow-in-deep-south-ice-closes-north-islands-desert-road>

Heavy hail falls on Wellington as colder weather bites

Hailstones measuring 2.5 centimetres were seen in Wellington.

The capital had gusts of up to 100 kilometres an hour, said MetService lead forecaster Michael Martens.

<https://www.radionz.co.nz/news/national/357993/heavy-hail-falls-on-wellington-as-colder-weather-bites>

Heavy snow closes roads as colder temperatures kick in

MetService meteorologist Tom Bell said there are a few more cold nights on the cards due to a south-west flow over the country.

<http://www.radionz.co.nz/news/national/358082/heavy-snow-closes-roads-as-colder-temperatures-kick-in>

Milford Rd shut, heavy snow on way

MetService said yesterday the coldest snap of the year to date was due to hit the South overnight. Meteorologist Peter Little said this morning temperatures in the far south had plummeted, and more snow had fallen on the alpine passes.

MetService meteorologist April Clark said the snow showers would ease and the the weather was expected to clear this afternoon but bringing high cloud and strong, cold winds.

<https://www.odt.co.nz/regions/milford-rd-shut-heavy-snow-way>

Milford Rd shut, heavy snow on way

The Milford Road has closed due to snow and more is also likely for the Crown Range Road as the South shivered in the coldest snap of the year so far.

<https://www.odt.co.nz/regions/milford-rd-shut-heavy-snow-way>

LUX Light festival called off in Wellington for thunderstorms

Meteorologist Lisa Murray said the organisers had been in contact, and advised from 2pm Tuesday to 1am Wednesday there was a severe wind warning in force.

<https://www.stuff.co.nz/dominion-post/news/104118636/lux-light-festival-called-off-in-wellington-for-thunderstorms>

Wild weather thrashes NZ, 9500 lightning strikes

The arrival of extreme weather over the last 24 hours has brought with it around 9500 lightning strikes for the west coast of the country.

<http://www.newshub.co.nz/home/new-zealand/2018/05/wild-weather-thrashes-nz-9500-lightning-strikes.html>

Weatherman Dan Corbett explains why your town is on the weather map - or not

"What it comes down to is the places on the website are places we write specific forecasts for, says MetService communications meteorologist Lisa Murray.

<https://www.stuff.co.nz/national/103818161/dan-corbett-explains-why-your-town-is-on-the-weather-map-or-not>

Volcano alert

Weather forecast model predicts complex patterns of volcanic ash dispersal

Posted: 02 May 2018 10:22 AM PDT

New research has provided fresh insight into how huge volcanic ash plumes, which can critically disrupt aviation and cause major impact on the ground, are transported in the atmosphere.

<https://www.sciencedaily.com/releases/2018/05/180502132212.htm>

MetOcean

Senegal-Mauritania wave and hydrodynamic hindcast models now available

MetOcean Solutions recently completed the development of high-resolution wave and hydrodynamic hindcast models offshore Senegal and Mauritania, West Africa.

<http://www.metocean.co.nz/news/2018/5/16/senegal-mauritania-wave-and-hydrodynamic-hindcast-models-now-available>

SeaRoc integrates metocean risk management software in its marine management system

SeaRoc Group has announced the integration of metocean risk management software - ForeCoast Marine – with its SeaPlanner marine management system.

<https://www.windtech-international.com/product-news/searoc-integrates-metocean-risk-management-software-in-its-marine-management-system>

NIWA

Why NZ is seeing warmest May on record

Many places across New Zealand have enjoyed their warmest May on the books, as a climatic tussle continues across the equatorial Pacific.

But meteorologists say the balmy-than-usual month may be about to take a chilly turn, as a cold snap hits the country later this week.

<http://www.newstalkzb.co.nz/news/why-nz-is-seeing-warmest-may-on-record/>

Extreme weather (and other news) – Antarctica and offshore islands

Antarctica could help unlock mysteries of universe, Nasa scientist Zaheer Ali says

Scientific forays into the frosted wilds of Antarctica could unlock further mysteries of the universe and help put a man on Mars, with post-quake Christchurch uniquely situated as an ice and space base, a visiting Nasa scientist said today.

https://www.nzherald.co.nz/nz/news/article.cfm?c_id=1&objectid=12056500

Extreme weather (and other news) – Australia and Pacific

Sydney's warm, dry spell to extend another week as El Nino risks rise

Sydney is in for at least another week of dry and mostly unseasonably warm weather, as odds begin to tilt towards climatic conditions that would favour much more of that to come.

<https://www.smh.com.au/environment/weather/sydney-s-warm-dry-spell-to-extend-another-week-as-el-nino-risks-rise-20180522-p4zgud.html>

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

Japan Meteorological Agency Takes Delivery of Pair of Crays

Cray has supplied two identical Cray XC50 supercomputers to the Japan Meteorological Agency (JMA) in northwestern Tokyo. Boasting more than 18 petaflops combined peak computing capacity, the new systems will extend the agency's ability to understand, model and predict the atmosphere and ocean and conduct general weather forecasting. The powerful HPC systems are critical to enabling the island nation to guard against natural threats such as typhoons and heavy rainfall.

<https://www.hpcwire.com/2018/05/21/japan-meteorological-agency-takes-delivery-of-pair-of-crays/>

Times Bridge and The Weather Company join hands to redefine weather forecast for India

IBM-backed The Weather Company announced its strategic partnership with Times Bridge on Wednesday.

In addition to The Weather Company's trusted and accurate weather reports via The Weather Channel, Times Bridge, the international investment and partnership arm of the Times Group, aims to combine locally relevant articles, photos and video content in both English and Hindi.

<https://www.techradar.com/news/times-bridge-and-the-weather-company-join-hands-to-redefine-weather-forecast-for-india>

China's massive plan to control the weather

It has the money. It has the manpower. It has the political will.

China is setting forth to change the weather.

According to [Chinese media](#), the state-owned Aerospace Science and Technology Corporation of China has begun to turn just such a plan into reality.

<http://www.foxnews.com/science/2018/05/15/chinas-massive-plan-to-control-weather.html>

Unusually severe Indian weather kills at least 66; more storms on the way

Storms are common at this time of the year but the severity of the weather this year, and the human cost, have been unusual

<http://news.trust.org/item/20180514081525-vlt33/>

Analysing-recent-high-impact-storms-in-india/

In terms of frequency, recent thunderstorm and dust storm activity was higher than normal, a top meteorologist said in an interview, adding that the intensity was also high, but not record-breaking

<http://indiaclimatedialogue.net/2018/05/23/analysing-recent-high-impact-storms-in-india/>

Oman, Yemen on alert for strengthening Cyclone Mekunu

A newly developed tropical system in the Arabian Sea is expected to intensify in the coming days and make landfall in the Arabian Peninsula later this week.

The system reached cyclone strength and was named Cyclone Mekunu on Tuesday evening local time.

<https://www.accuweather.com/en/weather-news/oman-yemen-on-alert-for-strengthening-cyclone-mekunu/70005018>

2018 Asia summer forecast: Drought, flood risks to arise from uneven monsoon; West Pacific may yield strong typhoons

An uneven southwestern and eastern Asia monsoon may lead to areas of drought and recurring flooding during the summer of 2018.

<https://www.accuweather.com/en/weather-news/2018-asia-summer-forecast-drought-flood-risk-to-increase-from-uneven-monsoon-while-the-potential-for-strong-typhoons-exists/70004904>

Highs of 34.5°C recorded as Hong Kong heatwave set to continue into public holiday

Hong Kong's sweltering heat is set to continue into the Buddha's Birthday public holiday on Tuesday, though rain is predicted for later in the week.

<https://www.hongkongfp.com/2018/05/21/highs-34-5c-recorded-hong-kong-heatwave-set-continue-public-holiday/>

Extreme weather (and other news) – Americas and Europe

Ottawa's Oceans Protection Plan to include funds for weather forecasting, ship monitoring

VANCOUVER – Transport Minister [Marc Garneau](#) says the federal government is investing in navigational mapping, ship monitoring and weather forecasting as part of the \$1.5-billion [Oceans Protection Plan](#).

<https://globalnews.ca/news/4214217/oceans-protection-plan-funding/>

International news and research

ISRO and its essential role in weather prediction

The Indian weather forecast becomes predictable due to the help of the information provided by ISRO which is [Indian Space Research Organization](#). ISRO is said to keep a close eye on the sky as it helps in predicting weather conditions by providing essential satellite data to the IMD that is the Indian Meteorological Department. ISRO includes water data to the IMD. This helps in providing information about harsh weather conditions to the public and also contributes to warning them about any thunderstorm. To curb natural calamities, ISRO also helps and acts as a disaster management agency by providing useful information. ISRO has two different centers namely, SAC which is Ahmedabad based Applications Centre and NRSC which is Hyderabad based National Remote Sensing Centre. Both these centers of ISRO remains engaged in collecting satellite data regarding weather and also help in processing those satellite data.

<https://www.military-technologies.net/2018/05/20/isro-and-its-essential-role-in-weather-prediction/>

Supercomputers and space-based laser to help predict extreme weather events

From droughts and forest fires to floods and big freezes, extreme weather events are [on the rise](#). But to what extent are these linked to climate change? Just months before the world's first wind monitoring satellite enters orbit, scientists have finalised a climate model with exceptional resolution, and the new tools will help identify how climate change impacts weather-related natural disasters like storm surges, hurricanes and heatwaves.

<https://phys.org/news/2018-05-supercomputers-space-based-laser-extreme-weather.html>

How far to go for satellite cloud image forecasting into operation

Cloud is a tracer for a variety of significant weather changes. Cloud images obtained from satellite remote sensing are of great help to weather forecasters in understanding the past and present weather processes in a macroscopic way. Forecasts made directly via satellite cloud images are a major goal of meteorologists and forecasters. Recent studies have shown that it is possible to produce satellite cloud image forecasts for up to tens of hours.

Read more at: <https://phys.org/news/2018-05-satellite-cloud-image.html#jCp>

NOAA Seeks Emerging Technologies to Further Its Mission

One of the National Oceanic and Atmospheric Administration's (NOAA) primary objectives is to share information about changes in weather, climate, oceans, and coasts. Effectively sharing this information requires emerging technologies that use new methods to collect data and convert them into knowledge. Emerging technologies is an area of special interest to managers who oversee NOAA's observing systems, which account for roughly half of NOAA's \$5.7 billion annual budget.

<https://eos.org/meeting-reports/noaa-seeks-emerging-technologies-to-further-its-mission>

Weather forecasters still rely on decades-old practice

LAS VEGAS (AP) — With all the technological advances in weather forecasting over the years, National Weather Service officials in Las Vegas and across the country still rely on a decades-old practice to fine tune their outlook — twice-daily launching of weather balloons.

http://www.hastingstribune.com/weather-forecasters-still-rely-on-decades-old-practice/article_dbfd1d27-41e4-537d-9c69-5ccb65aa081e.html

Powerful hurricanes strengthen faster now than 30 years ago

Hurricanes that intensify rapidly -- a characteristic of almost all powerful hurricanes -- do so more strongly and quickly now than they did 30 years ago, according to a new study. The phenomenon is due largely to a climate cycle known as the Atlantic Multidecadal Oscillation.

<https://www.sciencedaily.com/releases/2018/05/180509081944.htm>

New network is installed to investigate space weather over South America

Magnetometer network identifies magnetic field disturbances that can cause interference in electronic appliances, power grids and satellite navigation systems

https://www.eurekalert.org/pub_releases/2018-05/fda-nni052218.php

Weather science: What exactly is a pop-up storm anyway?

"Pop-up storms" is a pretty common term used by meteorologists all across the country, but do you know what it really means?

<https://www.clickondetroit.com/weather-center/science-of-weather/weather-science-what-exactly-is-a-pop-up-storm-anyway>

Hurricanes: Stronger, slower, wetter in the future?

Scientists have developed a detailed analysis of how 22 recent hurricanes would be different if they formed under the conditions predicted for the late 21st century.

<https://www.sciencedaily.com/releases/2018/05/180521131532.htm>

Lightning in the eyewall of a hurricane beamed antimatter toward the ground

Hurricane Patricia, which battered the west coast of Mexico in 2015, was the most intense tropical cyclone ever recorded in the Western Hemisphere. Amid the extreme violence of the storm, scientists observed something new: a downward beam of positrons, the antimatter counterpart of electrons, creating a burst of powerful gamma-rays and X-rays.

<https://www.sciencedaily.com/releases/2018/05/180521131530.htm>

How Far We've Come: 70 Years Of Weather Technology Advances

BOSTON (CBS) — No doubt about it – jokes about the weather being wrong are here to stay. No matter how much forecasting improves, this stigma continues. And there's some truth to that. Forecasts for the weather are not 100%, and probably never will be. It's a prediction for the future after all, and there is inherent uncertainty in figuring out what will happen hours, days, weeks, and especially months from now.

<http://boston.cbslocal.com/2018/05/22/wbz-weather-eric-fisher-severe-weather-alerts-ibm-radar-advancements/>

ISRO and its essential role in weather prediction

The Indian weather forecast becomes predictable due to the help of the information provided by ISRO which is [Indian Space Research Organization](#). ISRO is said to keep a close eye on the sky as it helps in predicting weather conditions by providing essential satellite data to the IMD that is the Indian Meteorological Department. ISRO includes water data to the IMD. This helps in providing information about harsh weather conditions to the public and also contributes to warning them about any thunderstorm. To curb natural calamities, ISRO also helps and acts as a disaster management agency by providing useful information. ISRO has two different centers namely, SAC which is Ahmedabad based Applications Centre and NRSC which is Hyderabad based National Remote Sensing Centre. Both these centers of ISRO remains engaged in collecting satellite data regarding weather and also help in processing those satellite data.

<https://thefinancialconsulting.com/isro-and-its-essential-role-in-weather-prediction/623189/>

WMO

Development and Implementation of the Japanese Enhanced Fujita Scale - Japan Meteorological Agency

The Japan Meteorological Agency released its Guidelines for the Japanese Enhanced Fujita Scale in December 2015 and began using them for damage surveys in April 2016. The English version was uploaded to the JMA website on 22nd January 2018.

[Read more here](#)

Business development / commodities / infrastructure etc

MeteoGroup Releases New Version of Weather Routing System

MeteoGroup, the global weather authority, introduces a new version of its market leading weather routing solution SPOS (Ship Performance Optimization System). The new version, SPOS9, enables captains to safely navigate the globe with minimal fuel consumption and emissions, by calculating and recalculating optimum routes and anticipating oncoming weather and sea conditions. With SPOS9 its easier than ever for captains and ship owners to save fuel and time and increase ship safety.

<https://www.maritime-executive.com/corporate/meteogroup-releases-new-version-of-weather-routing-system>

Insurance industry dangerously unprepared for extreme weather, study finds

As historic flooding caused by climate change devastates communities in New Brunswick and British Columbia, new research reveals the insurance industry hasn't considered a changing climate in their practices, putting homeowners at financial risk.

<https://www.sciencedaily.com/releases/2018/05/180515081720.htm>

Aviation

When a plane is struck by a lightning bolt - 'It's quite a show'

The "burning electrical smell" a passenger on a [Sunday flight to Queenstown](#) reported after the plane was struck by lightning was likely to have been the static dischargers melting, an aviation expert said.

<https://www.stuff.co.nz/travel/travel-troubles/104062622/when-a-plane-is-struck-by-a-lightning-bolt--its-quite-a-show>

Energy and Mining

How Australia survived its second-hottest summer without load-shedding blackouts

Australia's electricity grid survived the second-hottest summer on record without load-shedding blackouts, despite the closure of a major coal-fired power station in Victoria, according to two reports released on Wednesday by the Australian Energy Market Operator (AEMO).

<http://www.abc.net.au/news/2018-05-23/no-load-shedding-over-hot-summer/9792802>

Farming/horticulture

Impact of weather and well-timed cultural management techniques on organic weed control

Weed management can be a tough challenge in organic cropping systems since growers don't have herbicides in their weed control arsenal. New research, though, shows that weather conditions and well-timed cultural management techniques can help fill the void by making crops more competitive.

<https://www.sciencedaily.com/releases/2018/05/180515105718.htm>

History

Weatherwatch: Nimbus-B satellite was almost a disaster

Weather satellites transformed forecasting, saving lives, but now rely on solar - not nuclear - power

<https://www.theguardian.com/science/2018/may/16/weatherwatch-nimbus-b-satellite-was-almost-a-disaster>

Lightning

Study confirms link between gamma rays, lightning strikes

"It was BOOM BOOM BOOM BOOM," physicist John Belz said of the gamma ray flashes.

https://www.upi.com/Science_News/2018/05/17/Study-confirms-link-between-gamma-rays-lightning-strikes/8261526583038/

Exclusive: Watch a new video of lightning strikes seen from space

NOAA's GOES-17 satellite is ready for action.

<https://www.popsci.com/exclusive-new-video-lightning-strikes-seen-from-space>

Satellites and radar

Taiwan's Taoyuan International Airport Upgrades Weather Radar

Baron announced that it has been selected to provide upgrades to the existing Baron radar serving Taoyuan International Airport, the world's tenth-busiest international passenger airport, which carries more than 42 million passengers. Moving more than 2.1 billion kilograms (4.6 billion pounds) of cargo, the airport is sixth-busiest in terms of international freight traffic.

http://www.aviationpros.com/press_release/12412932/taiwans-taoyuan-international-airport-upgrades-weather-radar-with-new-baron-components

Innovation and technologies (inc data and new products)

Hangar & ClimaCell Partnership Adds Micro-Weather Intelligence to Autonomous Robotics Infrastructure

Real-time systems to include micro location weather intelligence to support autonomous drones, cars and robotics at the Kinetic Edge.

<https://www.benzinga.com/pressreleases/18/05/p11713824/hangar-climacell-partnership-adds-micro-weather-intelligence-to-autono>

Internet of Things Inc. to Acquire Weather Telematics Inc.

Internet of Things Inc (TSXV:ITT), a strategic investor in growth-oriented companies with innovative IoT, AI and Blockchain solutions announced that it has entered into a letter agreement with Weather Telematics Inc, a data science company offering real-time advanced artificial intelligence (AI) based predictive road condition weather analytics

<https://investingnews.com/daily/tech-investing/cloud-investing/internet-of-things-inc-to-acquire-weather-telematics-inc/>

Climate change / global warming / sea level rise

Global 2 degrees C rise doubles population exposed to multiple climate risks compared to 1.5 degrees C

New research identifying climate vulnerability hotspots has found that the number of people affected by multiple climate change risks could double if the global temperature rises by 2 degrees C, compared to a rise of 1.5 degrees C.

<https://www.sciencedaily.com/releases/2018/05/180516101420.htm>

Drying rivers can help drive climate change - study

Dry rivers like those that snake through Canterbury's countryside could be making a hidden contribution to climate change.

https://www.nzherald.co.nz/climate-change/news/article.cfm?c_id=26&objectid=12056182&ref=rss

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Systematic Errors in Weather and Climate Models: Nature, Origins, and Ways Forward

Ayrton Zadra, Keith Williams, Ariane Frassoni, Michel Rixen, Ángel F. Adames, Judith Berner, François Bouyssel, Barbara Casati, Hannah Christensen, Michael B. Ek, Greg Flato, Yi Huang, Falko Judt, Hai Lin, Eric Maloney, William Merryfield, Annelize Van Niekerk, Thomas Rackow, Kazuo Saito, Nils Wedi, and Priyanka Yadav

Energy Landscapes: Modeling of Renewable Energy Resources with an Emphasis on Northern Germany

P. Michael Link, Jürgen Böhner, Hermann Held, and Jürgen Scheffran

Weather

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Early View (Online Version of Record published before inclusion in an issue)

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Book reviews

Book review

Version of Record online: 18 MAY 2018 | DOI: 10.1002/wea.3273

Research Articles

The August 2015 mega-heatwave in Poland in the context of past events

Agnieszka Krzyżewska and Jamie Dyer

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Ice halos in weather lore and meteorology, and a rare halo display in San Francisco

Mila Zinkova

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[Titanic's mirage, part 1: The enigma of the Arctic High and a cold-water tongue of the Labrador Current](#)

Mila Zinkova

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Short Articles

[An observational study of the Kanchipuram flood during the northeast monsoon season in 2015](#)

Anoop Mishra, Sagarika Chandra, Mohammad Rafiq, N. Sivarajan and K. Santhanam

Version of Record online: 18 MAY 2018 | DOI: 10.1002/wea.3271

- This study presents analysis of observational data from a flood that hit Kanchipuram, India in 2015.
- Rain gauge observations from 13 stations are used.
- The results show that the flood was caused by multi-day heavy precipitation events during November and December.
- The image shows the cumulative rainfall totals over Kanchipuram from 2 November to 2 December 2015.

Short Article

[The Delhi 'gas chamber': smog, air pollution and the health emergency of November 2017](#)

James P. Terry, Gensuo Jia, Robert Boldi and Sarah Khan

Version of Record online: 18 MAY 2018 | DOI: 10.1002/wea.3242

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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](#).

[Hurricanes: Stronger, slower, wetter in the future?](#)

EurekAlert! - 05/21/2018

of a massive new dataset created at NCAR. The scientists ran the Weather Research and Forecasting (WRF) model at a high resolution

[Age-wise: Seeking safety in the hot summer months](#)

Winston-Salem Journal - 05/21/2018

staying on top of the heat. Listen to the weather reports for humidity and air pollution warnings. The temperature outside doesn't have to

[April was Earth's 400th warmer-than-normal month in a row](#)

MSN.com - 05/19/2018

than just a few decades ago, and our world continues to warm," NOAA climate scientist Deke Arndt told USA Today. "Speeding by a '400' sign

[New NASA Chief Bridenstine Says Humans Contribute to Climate Change 'in a Major Way'](#)

Space.com - 05/19/2018

forecasting. His 2013 claim was that too much research is done into climate change instead of weather forecasting. Now, if his words to NASA

[A little extra global warming will mean a lot more habitat loss for plants and animals, study says](#)

Sun Sentinel - 05/18/2018

to a new study. In a paper published Thursday in Science, researchers report that limiting global warming to 1.5 degrees Celsius above the

[We Only Had One Photograph of the Entire Earth—until Three Years Ago](#)

Artsy - 05/18/2018

funded” its ongoing earth science mission (its space weather work was never under threat). Funding of the Earth-viewing instruments for 2019

Mental health in Puerto Rico

American Psychological Association - 05/18/2018

says about the days after the storm. Scenes of resilience and despair. The crisis was especially intense in Puerto Rico’s mountains and

Thousands of Amateur Radio Operators Measured the Solar Eclipse's Effects on the Atmosphere

Gizmodo - 05/18/2018

to research how solar flares impact the ionosphere, and aims to build personal space weather stations. [Geophysical Research Letters]

What exactly are weather models and how do they work?

The Washington Post - 05/18/2018

wind, temperature and moisture) obtained from ground sensors and weather satellites are fed into these equations. The observations are

Climate change is one of Australia's biggest national security risks

New Haven Register - 05/18/2018

threat.” Researchers from the Australian Strategic Policy Institute (ASPI) said that extreme weather brought on by climate change may

Putting the Clean Air Act on Ice

Watts Up With That - 05/17/2018

said the study’s lead author Joe McConnell, Ph.D., Research Professor of Hydrology at DRI. “We found that lead pollution in Greenland very

Acting NOAA Head Tim Gallaudet Reflects on Agency Successes and Future Directions

The American Institute of Physics - 05/17/2018

and the interview. RDML Gallaudet Official Photo-512x512.jpg Hurricane forecasting improvements a major NOAA focus “[The] story of what

Our tsunami warning system is faulty. Can these scientists fix it?

NBCNEWS.com - 05/17/2018

in Seattle, and Diego Arcas, director of the NOAA Center for Tsunami Research in Seattle, agree that earthquake-generated sound waves can

RIP science, the International Space Station will be taken over by rich people

The Outline - 05/17/2018

the past twenty years, it’s been a central hub for research that helps us understand weather, climate, and geography on the earth’s surface,

The 2018 hurricane season begins in 2 weeks, and early forecasts predict more storms than average — again

Business Insider - 05/17/2018

worth of damage. A recent study found that in recent years, storms have become more intense in a short period of time, undergoing rapid

[National Hurricane Center gives sneak peek of newly improved technology](#)

Fox News - 05/17/2018

two thirds of the time. “Last year, our track forecasts of where the hurricane is going to go were the best historically that we’ve ever

[The Midwest Is Getting Drenched. And It’s Causing Big Problems](#)

FiveThirtyEight - 05/17/2018

has seen more storms that produce heavy rainfall, and its strongest storms have grown more intense. One of the more dramatic changes is the

[Marine animals have been following their preferred climate for millions of years](#)

EurekAlert! - 05/17/2018

Current global warming has far-reaching ecological consequences, also for the Earth's oceans. Many marine organisms are reacting by

[Humans are causing massive changes in the location of water all over the Earth, NASA says](#)

The Denver Post - 05/16/2018

to changes in ocean currents, to the scale of the California drought. The new research, led by NASA’s Matthew Rodell, pulls together these

[New Study Suggests Hurricanes Are Bound to Get More Severe](#)

The Inertia - 05/16/2018

– a result of climate change – will lead to more intense, bigger, and longer lasting storms in the future. “Human-induced climate change

[Why are some tornadoes rated with an F, and others with an EF?](#)

KCRG - 05/16/2018

mph F5: 261-318 mph Since then, engineers and meteorologists have done much more research on tornadoes and the damage they cause. Better

[Stealth tornado: How a Finger Lakes twister touched down and almost no one knew it](#)

Democrat and Chronicle - 05/16/2018

clouds. The technology marked a major advance in short-term tornado forecasting, and it enables the weather service to issue more accurate

[How far to go for satellite cloud image forecasting into operation](#)

Phys.org - 05/16/2018

channel brightness temperature of a geostationary meteorological satellite, and compared it with the actual satellite cloud images. The

[Impact of weather and well-timed cultural management techniques on organic weed control](#)

ScienceDaily - 05/15/2018

A research team from the USDA’s Agricultural Research Service (ARS) evaluated 18 years of weather data collected during a long-term,

[9 weather terms you should know when preparing for a hurricane](#)

Action News Jax - 05/15/2018

surge An abnormal rise in sea level accompanying a hurricane or other intense storm. The height is the difference between the normal level

[Here's When the 'A' Storm Typically Gets Named in Hurricane Season](#)

The Weather - 05/15/2018

when the "A" storm has typically arrived. The earliest in a year the "A" storm has made its appearance was 2016's Hurricane Alex which first

[Something Stirs: What Will Happen as Permafrost Thaws?](#)

Discover Magazine - 05/15/2018

will release greenhouse gases, accelerating global warming. The feedback was first described in a 2006 Science paper. Yet permafrost carbon

[What's a Derecho, as in the Kind of Storm East Coast Was Warned About on Monday?](#)

Newsmax - 05/15/2018

Ferrell (@Accu_Jesse) May 14, 2018 Satellite image showing intense storm complex developing NW of DC . Still thinking it passes through.

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