

## **New Zealand weather and climate news**

*Courtesy of MetService*

### ***MetService Focus***

#### **Severe weather warning for west of Motueka, Buller and Nelson on heavy rain and thunderstorm watch**

The rest of the region, including Nelson City, has a heavy rain watch in place until 8pm on Monday.

Metservice meteorologist April Clark said the "most active front" was due to move over the region about noon.

<https://www.stuff.co.nz/nelson-mail/news/106397841/nelson-on-heavy-rain-and-thunderstorm-watch-with-heavy-rain-expected-about-midday>

#### **Risk of thunderstorms, small tornados, but better days ahead**

Thunderstorms with wind gusts up to 110kmh and a chance of small coastal tornados remain a risk for parts of the North Island on Thursday morning.

<https://www.stuff.co.nz/national/106496089/risk-of-thunderstorms-small-tornados-but-better-days-ahead>

#### **Your weather: More thunderstorms and heavy rain expected across parts of North Island**

MetService meteorologist William Nepe said for the South Island it was pretty quiet for the next two days apart from intermittent showers in Southland.

[https://www.nzherald.co.nz/nz/news/article.cfm?c\\_id=1&objectid=12111884](https://www.nzherald.co.nz/nz/news/article.cfm?c_id=1&objectid=12111884)

#### **Weather update: Thunderstorms bring risk of lightning strikes and flooding**

MetService meteorologist Brian Mercer said Tongariro National Park received 30 to 50mm or rainfall last night.

[https://www.nzherald.co.nz/nz/news/article.cfm?c\\_id=1&objectid=12111539](https://www.nzherald.co.nz/nz/news/article.cfm?c_id=1&objectid=12111539)

## **Storm risk set to reignite as wild weather sweeps across NZ**

MetService meteorologist Lisa Murray said "quite a big chunk" of the North Island, from South Auckland down to the Taranaki area, faced potential thunderstorms at dawn.

<https://www.stuff.co.nz/national/106473321/storm-risk-set-to-reignite-as-wild-weather-sweeps-across-nz>

## **New Zealand's tornado threat: What to do if another one strikes**

The moderate threat of thunderstorms is not expected to clear until after tonight, according to MetService meteorologist Andrew James - so the risk of more tornadoes persists.

<https://www.newshub.co.nz/home/new-zealand/2018/08/new-zealand-s-tornado-threat-what-to-do-if-another-one-strikes.html>

## **Unsettled week for Hawke's Bay**

"Unsettled," is how MetService meteorologist Peter Little describes the weather prediction, sharing the region's disappointment that yesterday's beautiful weather was only a temporary fix.

[https://www.nzherald.co.nz/hawkes-bay-today/news/article.cfm?c\\_id=1503462&objectid=12109772](https://www.nzherald.co.nz/hawkes-bay-today/news/article.cfm?c_id=1503462&objectid=12109772)

## **Volcano alert**

Wind will determine fate of North Island cities in massive Central Plateau eruption

It's not just Central Plateau residents that need to watch out if volcanoes in the area explode.

Scientists have now calculated just where clouds of ash might fall and which areas to evacuate first - from Wellington to Auckland.

<https://www.stuff.co.nz/environment/106320225/wind-will-determine-fate-of-north-island-cities-if-massive-central-plateau-eruption>

**NIWA**

## **Niwa says spring expected to be a normal old season - at last**

After record-setting seasons, spring is expected to be... well, pretty much like spring. But be warned: an El Nino summer approaches.

<https://www.stuff.co.nz/national/106376483/niwa-says-spring-expected-to-be-a-normal-old-season--at-last>

## **Extreme weather (and other news) – Australia and Pacific**

### **Melbourne and Adelaide have been Australia's most vulnerable major cities to killer heatwaves**

Melbourne and Adelaide have been most prone to deadly heatwave conditions among Australia's five largest cities, according to my new research published in Climatic Change.

<https://theconversation.com/melbourne-and-adelaide-have-been-australias-most-vulnerable-major-cities-to-killer-heatwaves-100950>

### **Victoria bracing for worst fire season in a decade**

Record-breaking low rainfall in parts of Victoria is forcing the Country Fire Authority (CFA) to bring forward the start of its bushfire season.

<http://www.abc.net.au/news/2018-08-16/victoria-warned-to-brace-for-worst-fire-season-in-a-decade/10128402>

### **Sydney's wildest weather**

From dust to hail, tornados and heatwaves, Sydney has faced some of the nation's most extraordinary and expensive weather events.

<http://www.abc.net.au/news/2018-08-17/sydney-wildest-weather-dust-tornado-hail-storm-heatwave/10113306>

### **Rainfall forecasts are often misunderstood, but here is how to make sense of them**

We hate to rain on your parade, but we have some bad news — you have probably been reading the weather forecast all wrong.

<http://www.abc.net.au/news/2018-08-18/rainfall-forecasts-misunderstood-how-to-make-sense-of-them/10093822>

### **Category four Hurricane Lane continues heading towards Hawaii**

Hurricane Lane has weakened to a category four storm as it heads towards Hawaii where residents are bracing for "life threatening" winds and flooding.

<https://www.radionz.co.nz/international/pacific-news/364712/category-four-hurricane-lane-continues-heading-towards-hawaii>

### **Coverage of extreme weather events and natural hazards in Pacific Island countries: the need for media capacity-building**

17 Jul 2018

[Shailendra Singh](#), [Vijay Naidu](#)

#### **Pacific Journalism Review**

There would be little disagreement over the media's crucial role in reporting extreme weather events and natural hazards, which have become more commonplace in Pacific Island Countries (PICs). However, for various reasons explored in this article, the media have generally failed to satisfactorily cover the unfolding of natural hazards and disasters. Using Fiji as an example, this article discusses media coverage of various cyclones, and the gaps in the reporting. The article argues that more training and capacity building for media personnel should be undertaken to ensure that people are well informed and prepared as they face the brunt of more frequent and intense extreme weather events.

<http://apo.org.au/system/files/187806/apo-nid187806-991396.pdf>

### **Social media and disaster communication: a case study of Cyclone Winston**

17 Jul 2018

[Glen Finau](#), [John Cox](#), [Jope Tarai](#), [Romitesh Kant](#), [Renata Varea](#), [Jason Titifanue](#)

#### **Pacific Journalism Review**

This article presents an analysis of how social media was used during Tropical Cyclone Winston, the strongest recorded tropical storm that left a wake of destruction and devastation in Fiji during February 2016. Social media is increasingly being used in crises and disasters as an...

<http://apo.org.au/system/files/187826/apo-nid187826-991156.pdf>

### **Rising seas will displace millions of people – and Australia must be ready**

Sea-level rise is already threatening some communities around the world, particularly small island states, as it exacerbates disasters resulting from storm surges and flooding.

<https://theconversation.com/rising-seas-will-displace-millions-of-people-and-australia-must-be-ready-101906>

### **Readying the Wakas: New Zealand's Response to Climate Change-Induced Displacement in the Pacific**

What does climate-induced displacement mean for the Pacific region, and how should New Zealand respond? Oxfam New Zealand and the IGPS invite you to an expert panel discussion.

The event draws together representatives from climate-displaced Pacific Island communities, subject matter experts and New Zealand policy specialists. They will explore the scale of the challenge in our region and how it will impact the civil, economic and social rights of vulnerable communities. Which policies and programmes should inform New Zealand's response?

### **What: Readying the Waka: New Zealand's Response to Climate Change-Induced Displacement in the Pacific**

When: 16 October 2018, 12.30 pm – 2.00 pm

Where: Rutherford House Lecture Theatre 2 (RHLT2), Victoria University of Wellington

Register by emailing : [igps@vuw.ac.nz](mailto:igps@vuw.ac.nz)

The panel will be followed on October 17 by a two-hour technical workshop open to government policy makers, academia and international development

practitioners, to generate ideas for actions New Zealanders can undertake to support vulnerable Pacific communities. If you are interested in participating, please contact:

Darren Brunk, Humanitarian Specialist, Oxfam New Zealand

Ph: (0) 210 237 5654

Email: Darren.brunk@oxfam.org.nz

### **Western Pacific on 'El Niño watch'**

The Western Pacific region may be facing the resurgence of the El Niño weather condition later this year.

<https://www.radionz.co.nz/international/pacific-news/364480/western-pacific-on-el-nino-watch>

### **Met Service loses asbestos**

The old asbestos roof in the balloon shed at the Cook Islands Meteorological Service has been removed and replaced with a new roof.

Work has been carried out by RVK Contractors, one of only two companies on Rarotonga qualified to work with asbestos.

[Read more here](#)

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

#### **Tokyo's heatwave suggests risky temperatures for the 2020 Olympics. Here's what the city can do**

The Northern Hemisphere is currently suffering an unprecedented heatwave. In Japan, more than 100 people have died and tens of thousands more are in hospital due to heat-related illness.

<https://theconversation.com/tokyos-heatwave-suggests-risky-temperatures-for-the-2020-olympics-heres-what-the-city-can-do-101316>

#### **'Huge disaster': Deadly Kerala floods displace over 800,000**

Death toll since end of May reaches 370, as fishermen aid rescue operations for the southern state's 'worst floods'.

<https://www.aljazeera.com/news/2018/08/disaster-deadly-kerala-floods-displace-800000-180819142342769.html>

## **Extreme weather (and other news) – Americas and Europe**

### **In numbers: the UK public's attitudes towards climate change**

In late July, environmental law firm ClientEarth and YouGov surveyed more than 2,000 UK adults on attitudes across a spectrum of climate-related questions. With the survey released on Monday (20 August), edie rounds-up the relevant facts and figures.

<https://www.edie.net/news/9/In-numbers--the-UK-public-s-attitudes-towards-climate-change/>

### **10 killed following flash flooding at popular tourist destination in southern Italy**

Heavy rain flooded a narrow creek canyon popular among tourists in southern Italy, killing at least 10 people on Monday.

<https://www.accuweather.com/en/weather-news/popular-italian-tourist-spot-devastated-by-flash-flooding-killing-10/70005850>

## **Extreme drought causes EU vegetables ‘most serious’ crisis in 40 years**

Europe’s prolonged extreme drought has caused the most severe problems to the EU vegetable sector in the last 40 years, according to the European Association of Fruit and Vegetable Processors (PROFEL).

<https://euractiv.us15.list-manage.com/track/click?u=ec8c3035cd2e0ab2e3760549e&id=dcd382b499&e=3342c9204b>

### **Sweden announces government investigations to better prepare for extreme weather**

The extreme drought and prolonged heatwave across Sweden this summer have raised the question of whether the country could have done more to be ready for this kind of emergency. Now, the government has announced measures to improve preparedness and set aside resources to deal with extreme weather.

<https://www.thelocal.se/20180820/sweden-announces-five-investigations-to-better-prepare-for-extreme-weather>

## **International news and research**

### **Weather Trends International Wins Silver International Business Award**

Innovator of the Year 2018 - CEO Captain Bill Kirk

BETHLEHEM, Pa., Aug. 14, 2018 /PRNewswire/ -- Weather Trends International's CEO Captain Bill Kirk has been named a silver Stevie® winner for Innovator of the Year in the 15th Annual International Business Awards.

<https://www.prnewswire.com/news-releases/weather-trends-international-wins-silver-international-business-award-300696721.html>

### **Top architect Alec Tzannes has advice for cooling the hot, hot city of Darwin**

Ask visitors and locals alike for their impression of Darwin in the wet season months, and many may tell you it is bloody hot.

During the build-up — the sweltering months of humidity before rain breaks during the wet season — locals shelter from the sauna-like heat in air-conditioned homes, cars and offices.

<http://www.abc.net.au/news/2018-08-20/top-architect-alec-tzannes-cooling-hot-darwin-city/10132378>

### **John Lindsey: A look at NOAA's High-Resolution Rapid Refresh Smoke air quality modeling system**

As the most massive wildfires in the state's history continue to burn, I have received quite a few inquiries about smoke plumes and how you can track them.

Meteorologists, air-quality resource managers, first responders and members of the public have discovered NOAA's High-Resolution Rapid Refresh (HRRR)-Smoke air quality modeling system.

[https://santamariatimes.com/news/local/columnists/john\\_lindsey/john-lindsey-a-look-at-noaa-s-high-resolution-rapid/article\\_ec63ed66-a33f-5ea5-aac7-21d295d9edd0.html](https://santamariatimes.com/news/local/columnists/john_lindsey/john-lindsey-a-look-at-noaa-s-high-resolution-rapid/article_ec63ed66-a33f-5ea5-aac7-21d295d9edd0.html)

### **Man killed on Long Island is New York's first lightning death since 2016**

A man was struck and killed by lightning in Kings Park on Long Island, New York, on Saturday evening.

<https://www.accuweather.com/en/weather-news/man-killed-on-long-island-is-new-yorks-first-lightning-death-since-2016/70005828>

### **Solar eclipses and weather**

The study of the effects of solar eclipses has been an important feature of Weather since its inception more than 70 years ago. Eclipses cause temperature changes as a result of the reduction of incoming radiation, which in turn can affect cloud development and, to some extent, humidity. This virtual issue of Weather brings together all the papers published in the journal to March 2018.

Papers featured include:

[The enchantment of eclipses](#), Jay Anderson

[Solar eclipses](#), S.R. Dunlop

[Meteorological impacts of the total solar eclipse of 21 August 2017](#), Stephen Burt

Visit the website to read more

All articles free to read until 28th September

### **Business development / commodities / infrastructure etc**

### **India's largest media group looks to Vice and Weather Channel for growth**

Investments take place of Bennett Coleman's earlier partnership deals

<https://asia.nikkei.com/Business/Business-Deals/India-s-largest-media-group-looks-to-Vice-and-Weather-Channel-for-growth>

### **Aviation**

## **Many startups that hope to become the next SpaceX**

Robert Zubrin believes that by 2023, there will be at least six other private space launch companies that will join SpaceX, Blue Origin, Virgin Galactic and Stratolaunch in commercial space launch.

<https://www.nextbigfuture.com/2018/08/many-startups-that-hope-to-become-the-next-spacex.html>

## **Energy and Mining**

### **Wind farms receiving weather guidance in Tassie**

Woolnorth Wind Farm Holding has recently announced it is receiving weather guidance and lightning detection services from MetraWeather Australia.

<http://www.ecogeneration.com.au/wind-farms-receiving-weather-guidance-in-tassie/>

### **Northern Territory's largest solar program nearing completion**

The Northern Territory's largest solar program is heading towards completion, with work in 16 communities already finished.

<https://reneweconomy.com.au/northern-territorys-largest-solar-program-nearing-completion-10372/>

### **Sydney Airport turns to wind energy for 75 per cent of supply**

Sydney Airport has decided to turn to wind energy to reduce its electricity costs and lower emissions, and has signed a contract with Origin Energy that will result in three-quarters of its electricity supply coming from the Crudine Ridge wind farm in central west NSW.

<https://reneweconomy.com.au/sydney-airport-turns-to-wind-energy-for-75-per-cent-of-supply-67427/>

### **Wind lease sales could become legal for Pacific territories**

Wind lease sales could become legal in US territories in the Pacific under legislation recently introduced by island delegates.

<https://www.radionz.co.nz/international/pacific-news/364624/wind-lease-sales-could-become-legal-for-pacific-territories>

### **Mercury's net profit rises 27 percent on record hydro generation**

Mercury Energy has made a strong full-year profit driven up by record hydro generation.

<https://www.radionz.co.nz/news/business/364584/mercury-s-net-profit-rises-27-percent-on-record-hydro-generation>

### **Policy needed to speed re-consenting of wind sites - Meridian**

Aug. 22 (BusinessDesk) - Stronger policy direction favouring renewables is needed if the country is to meet its target for net-zero carbon emissions by 2050, Meridian Energy chief executive Neal Barclay says.

<http://www.scoop.co.nz/stories/BU1808/S00722/policy-needed-to-speed-re-consenting-of-wind-sites-meridian.htm>

## **Health**

### **How the weather affects our mood — and our health**

Looking ahead at the weekly forecast, there's a possible chance of the weather producing a sense of joy in some people, or an all-time low in others.

<http://www.abc.net.au/news/2018-08-17/how-weather-affects-our-mood-and-health/10124102>

## **Satellites and radar**

### **Tracking climate changes better**

The critical task of measuring global wind patterns will be undertaken soon by a satellite to be hoisted into orbit tomorrow from the Arianespace launch site in French Guiana.

<http://www.thestandard.com.hk/section-news.php?id=199220&sid=21>

## **Climate change / global warming / sea level rise**

Global warming can make extreme weather worse. Now scientists can say by how much.

Researchers no longer hesitate to blame climate change for floods, fires and heat waves. Here's how the science works.

<https://www.nbcnews.com/news/us-news/global-warming-can-make-extreme-weather-worse-now-scientists-can-n901751>

### **Cloud seeding / Geoengineering**

#### **Urban heat: can white roofs help cool world's warming cities?**

Light, reflective surfaces can have a dramatic impact in cooling the surrounding air – in cities, but in the countryside too. Whitewashed walls, arrays of photovoltaic cells, and stubble-filled fields can all provide local relief during the sweltering decades ahead. But policymakers beware. It doesn't always work like that. There can be unintended consequences, both on temperature and other aspects of climate, like rainfall. Even local geoengineering needs to be handled with care.

<https://e360.yale.edu/features/urban-heat-can-white-roofs-help-cool-the-worlds-warming-cities>

#### **Weather-on-Demand: UAE Cloud-seeding technique wins provisional US patent**

A cloud-seeding technique developed in the UAE has received a provisional patent from the US Patent and Trademark Office.

<http://www.independent.ae/4311/weather-on-demand-uae-cloud-seeding-technique-wins-provisional-us-patent/>

### **Emergency preparedness / disaster planning / resilience**

#### **Tonkin + Taylor develops disaster logistics website for the United Nations**

In recent years, tropical cyclones, earthquakes and tsunamis have cut a swathe of destruction across the Pacific. Many millions of dollars and tens of thousands of humanitarian aid worker hours have been devoted to recovery efforts.

<http://www.scoop.co.nz/stories/BU1808/S00589/tonkin-taylor-develops-disaster-logistics-website.htm>

## **Journals and articles online**

Unraveling hydrometeor mixtures in polarimetric radar measurements by Nikola Besic, Josué Gehring, Christophe Praz, Jordi Figueras i Ventura, Jacopo Grazioli, Marco Gabella, Urs Germann, and Alexis Berne <https://www.atmos-meas-tech.net/11/4847/2018/>

Short Summary: In this paper we propose an innovative approach for hydrometeor de-mixing, i.e., to identify and quantify the presence of mixtures of different hydrometeor types in a radar sampling volume. It is a bin-based approach, inspired by conventional decomposition methods and evaluated using C- and X-band radar measurements compared with synchronous ground observations. The paper also investigates the potential influence of incoherency in the backscattering from hydrometeor mixtures in a radar volume.

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Laure Raynaud, Benoît Touzé, and Philippe Arbogast

Impact of Adaptively Thinned AIRS Cloud-Cleared Radiances on Tropical Cyclone Representation in a Global Data Assimilation and Forecast System

Oreste Reale, Erica L. McGrath-Spangler, Will McCarty, Daniel Holdaway, and Ronald Gelaro

Evaluating the Experimental High-Resolution Rapid Refresh–Alaska Modeling System Using USArray Pressure Observations

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Estimating Maximum Significant Wave Height and Dominant Wave Period inside Tropical Cyclones

Paul A. Hwang and Edward J. Walsh

Subseasonal Tropical Cyclone Genesis Prediction and MJO in the S2S Dataset

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## **NCEP NOTES**

Tropical Cyclone Gale Wind Radii Estimates, Forecasts, and Error Forecasts for the Western North Pacific

Charles R. Sampson, James S. Goerss, John A. Knaff, Brian R. Strahl, Edward M. Fukada, and Efren A. Serra

Statistical Tropical Cyclone Wind Radii Prediction Using Climatology and Persistence: Updates for the Western North Pacific

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FORECASTERS' FORUM

Simulating Tornado Probability and Tornado Wind Speed Based on Statistical Models

Ariel E. Cohen, Joel B. Cohen, Richard L. Thompson, and Bryan T. Smith

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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.

Arctic's strongest sea ice breaks up for first time on record

MSN.com - 08/21/2018

wrote Thomas Lavergne, a scientist at the Norwegian Meteorological Institute, in a retweet of a satellite-gif of the blue water penetrating

How Much Natural Disasters Cost in Every State

MSN.com - 08/20/2018

8 natural disasters it experiences each year are more likely to be floods or tornadoes with costs that work out to \$96 a year per household.

Think Rivers Are Dangerous Now? Just Wait

Wired - 08/20/2018

In Southern California, for instance, climate models predict that storms will be more intense, but also less frequent. For this new model,

Sweltering Summers Linked to Rapidly Warming Arctic

Scientific American - 08/20/2018

has at least some influence on winter weather.” Research on the links to summer weather has received somewhat less attention—but interest

1 year after Harvey's catastrophic blow to Texas: By the numbers

MSN.com - 08/20/2018

damages throughout the affected region. It is estimated that Hurricane Harvey had total costs of \$125 billion, with estimates ranging from \$

How Does Seasonal Change Affect Your Mood? Autumn Could Impact Your Mental Health, According To Experts

Bustle - 08/20/2018

and goes in a seasonal pattern.” According to a 2014 research report by the Weather Channel and YouGov, one in three people (27 percent of

Scientists bolder in blaming global warming for extreme weather

41 NBC News - 08/19/2018

have been possible without human contributions.” Those American Meteorological Society papers all went through rigorous peer reviews that

Hailstorms aren't more common in Colorado than before, they are just costing more as the state grows - finance - att.net

ATT.com - 08/19/2018

tag will be the result of hail, Ian Giammanco, a research meteorologist with the Insurance Institute for Business and Home Safety told The

Wildfire smoke masquerades as cloud cover in WNY

Democrat and Chronicle - 08/18/2018

cirrus clouds? They look similar on visible satellite and that is why meteorologists use other satellite channels such as Infrared to tell

[Japan to launch new weather system to better predict heavy rains](#)

San Antonio Express-News - 08/18/2018

rainfall and wind strength. The data will be obtained from weather satellites and the Automated Meteorological Data Acquisition System. In

[Cold Atlantic Water Means Less Hurricane Activity As Peak Approaches](#)

Forbes - 08/18/2018

Prediction Center and many of the academic organizations that release seasonal hurricane forecasts. The August 9th update by NOAA calls for

[The heat is on for 4 more years: Extreme temperatures expected through 2022](#)

Ventura County Star - 08/18/2018

climate change fuel hellish July? Weather.us meteorologist Ryan Maue, who was not involved in the research, wonders whether the study "was

[Massive 'fire tornado' kills Calif. firefighter racing to rescue - KMOV.com](#)

KMOV.com - 08/17/2018

have been observed, Craig Clements of San Jose University's Fire Weather Research Laboratory told CNN. A fire tornado forms when the heat

[Is it true that 'rain follows the plow'?](#)

Futurity.org - 08/17/2018

a doctoral student in the department of hydrology and atmospheric sciences, and Zeng based their research on open-source data gathered at

[Scientists struggling to eradicate toxic 'red tides' from Florida's coast](#)

Engadget - 08/17/2018

and 2006 was preceded by a pair of intense hurricane years off the coast of Florida. Those storms scoured the coastline, pouring nutrients

Tree rings date eruption of ancient Thera volcano

Futurity.org - 08/17/2018

new light on the Thera debate.” World’s oldest weather report could alter Egyptian history “This research is about Thera, but really, the

Most economic forecasts have blind spot: Climate change

Click Orlando - 08/17/2018

too. And a growing body of research by economists and climate scientists shows that extreme weather will weigh on economic growth even more

NASA Satellite Captures Awe-inspiring Storm Plumes across the United States

Vaaju.com - 08/16/2018

published this month in Weather and Forecasting The Journal of the American Meteorological Society describes Bedka's team AACP phenomenon as

In 1968, scientists tried taming hurricanes

Science News - 08/16/2018

1983. Although it failed to meet its goal, Stormfury helped scientists improve hurricane forecasting (SN Online: 9/21/17). Researchers have

Scientists Want to Fly an Armored Warplane into Hailstorms

Scientific American - 08/16/2018

observations are needed after a lull in research that began in the 1980s. Ian Giammanco, lead meteorologist at the Insurance Institute for

Solar flare impacts microchips, August 16, 1989

EDN - 08/16/2018

in March of the same year. That flare caused extremely intense auroras and a geomagnetic storm that led to the collapse of Hydro-Québec's

Social position determines pregnant women's exposure to air pollution

ScienceDaily - 08/16/2018

the course of his or her life. These factors include air pollution, noise, meteorological factors and contact with green spaces. The unequal

**Rising sea levels threatens coastal cities with more tsunamis, scientists warn**

Yahoo! News - 08/16/2018

2060 - could more than double the chances of a huge tsunami swamping the territory, according to the research. A three-foot sea level rise,

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