

From: [REDACTED] Redacted under s9(2)(a)
To: [FutureofMoney](#)
Subject: Re: Cash
Date: Saturday, 11 May 2024 1:30:28 am
Attachments: [Screenshot \(3758\).png](#)
[Screenshot \(3763\).png](#)



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Current Conditions

Solar wind
speed: 409.6 km/sec
density: 1.94 protons/cm³
more data: [ACE](#), [DSCOVR](#)
Updated: Today at 1240 UT

X-ray Solar Flares
6-hr max: X3 0654 UT May10
24-hr: X3 0654 UT May10
[explanation](#) | [more data](#)
Updated: Today at 1245 UT

Daily Sun: 10 May 24



Expand: [labels](#) | [no labels](#) | [Carrington](#)

Giant sunspot AR3664 has a 'beta-gamma-delta' magnetic field that harbors energy for X-class solar flares. Credit: SDO/HMI

Sunspot number: 170
[What is the sunspot number?](#)
Updated 10 May 2024

Spotless Days
Current Stretch: 0 days
2024 total: 0 days (0%)
2023 total: 0 days (0%)
2022 total: 1 day (<1%)
2021 total: 64 days (18%)
2020 total: 208 days (57%)
2019 total: 281 days (77%)
2018 total: 221 days (61%)
2017 total: 104 days (28%)
2016 total: 32 days (9%)
2015 total: 0 days (0%)
2014 total: 1 day (<1%)
2013 total: 0 days (0%)
2012 total: 0 days (0%)
2011 total: 2 days (<1%)
2010 total: 51 days (14%)
2009 total: 280 days (71%)
2008 total: 268 days (73%)
2007 total: 152 days (42%)
2006 total: 70 days (19%)
Updated 10 May 2024

Thermosphere Climate Index
today: 21.38x10¹⁰ W **Warm**
Max: 49.4x10¹⁰ W **Hot** (10/1957)
Min: 2.05x10¹⁰ W **Cold** (02/2009)
[explanation](#) | more data: [gfs](#), [txt](#)
Updated 09 May 2024

The Radio Sun
10.7 MHz flux: 3000
Updated 10 May 2024

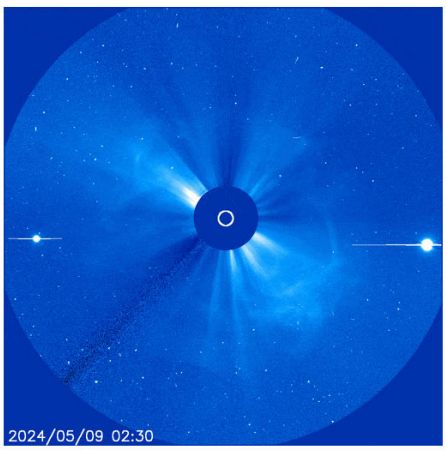
What's up in space

Friday, May 10, 2024

This is an **AI Free Zone!** Text created by Large Language Models is spreading rapidly across the Internet. It's well-written, artificial, frequently inaccurate. If you find a mistake on Spaceweather.com, rest assured it was made by a real human being.

ARE WE ABOUT TO EXPERIENCE A NEW CARRINGTON EVENT? No. AR3664 is indeed a 'Carrington-class' sunspot, but the CMEs it hurled toward Earth over the past few days are not as potent as the monster CME of Sept. 1, 1859. NOAA says we might experience a severe geomagnetic storm when the CMEs arrive this weekend. If geomagnetic storms were hurricanes, 'severe' would be category 4. The Carrington Event was category 5 or greater. So this is no Carrington Event. Even so, category 4 is pretty intense—if it happens. Stay tuned for some great auroras! [Aurora alerts: SMS Text](#)

FIVE CMEs ARE HEADING FOR EARTH: Great sunspot AR3664 has hurled an astonishing five CMEs toward Earth. They're all in this frenetic 2-day coronagraph movie from the Solar and Heliospheric Observatory (SOHO):



2024/05/09 02:30

The two bright objects are Jupiter (left) and Venus (right). The CMEs will miss those planets and hit Earth instead.

According to a NOAA forecast model, the first three CMEs could merge for form a "Cannibal CME." Cannibal CMEs form when fast-moving CMEs overtake and gobble up slower CMEs in front of them. Internal shock waves created by such CME collisions do an good job sparking geomagnetic storms when they strike Earth's magnetic field.

The Cannibal CME is expected to arrive on **May 11th**. It alone could spark a strong (G3) geomagnetic storm. With two more CMEs following close behind, storm levels could become extreme (G4), sparking auroras at mid- to low-latitudes across Europe and the USA.

Don't miss the storm! Sign up for [Space Weather Alerts](#) to receive instant text messages about CMEs.

archives

May

10

2024

view

THE NORTHERN LIGHTS COMPANY

AURORA CHASING EVERY NIGHT OF YOUR TRIP IN NORWAY

REMOTE ASTROPHOTOGRAPHY

YOUNG'S PHOTO GALLERIES

AvertedImagination

Atlas of Solar Eclipses

2000 to 2045

MDT

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[SpaceWeather.com -- News and information about meteor showers, solar flares, auroras, and near-Earth asteroids](#)

Solar maximum in this cycle will be in 2025.....so activity is increasing.....as are the risks to infrastructure.etc

So cash is so important going forward if we lose services and infrastructure.due to a Carrington type event or greater.

[Northern Lights could be visible in these parts of UK tonight \(msn.com\)](#)

[BOM warns level G4 geomagnetic storm will impact Earth — here's what that means \(msn.com\)](#)

SPACE WEATHER PREDICTION CENTER
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Friday, May 10, 2024 13:17:11 UTC


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CURRENT SPACE WEATHER CONDITIONS on NOAA Scales

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SWPC ISSUES ITS FIRST G4 WATCH SINCE 2005



Active Space Weather Conditions Through Weekend
WHAT: Large Sunspot Groups and Flares Lead to First G4 Watch Since 2005



- On Thursday, May 9, the NOAA Space Weather Prediction Center issued a Severe (G4) Geomagnetic Storm Watch – the first since January 2005.
- At least five earth-directed coronal mass ejections (CMEs) were observed and expected to arrive as early as midday Friday, May 10, 2024, and persist through Sunday, May 12, 2024. This is an unusual event.
- Several strong flares have been observed over the past few days and were associated with a large and magnetically complex sunspot cluster (NOAA region 3664), which is 16 times the diameter of Earth. Additional solar activity is expected from the region.
- Only three Severe geomagnetic storms have been observed during this solar cycle which began in December 2019. The last G4 (Severe) was on March 23, 2024, and the last G5 (Extreme) was the Halloween Storms in October 2003. That G5 resulted in power outages in Sweden and damaged power transformers in South Africa.



National Oceanic and Atmospheric Administration
U.S. Department of Commerce

Safeguarding Society with Actionable Space Weather Information

Space Weather Prediction Center,
Boulder, CO

SWPC ISSUES ITS FIRST G4 WATCH SINCE 2005
published: Thursday, May 09, 2024 20:38 UTC

On Thursday, May 9, 2024, the NOAA Space Weather Prediction Center issued a Severe (G4) Geomagnetic Storm Watch. At least five earth-directed coronal mass ejections (CMEs) were observed and expected to arrive as early as midday Friday, May 10, 2024, and persist through Sunday, May 12, 2024. Several strong flares have been observed over the past few days and were associated with a large and magnetically complex sunspot cluster (NOAA region 3664), which is 16 times the diameter of Earth.



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On Mon, Mar 25, 2024 at 4:46 PM Angus Craig Redacted under s.9(2)(a) wrote:

This is just a timely reminder as this was an earth facing CME, SOLAR GEOMAGNETIC STORM event to what could possibly affect anything electrical in the digital infrastructure age, depending on intensity and density.....LIKE the 1859 Carrington event banking would be affectedthis is why CASH should always be an option within society and readily available .Also a reminder for retailers who are going cashless....not good to put all your eggs in one basket if and when we get one strong enough to cause serious problems.

[SpaceWeather.com -- News and information about meteor showers, solar flares, auroras, and near-Earth asteroids](#)

[site:www.msn.com - Search News \(bing.com\)](#)

[Homepage | NOAA / NWS Space Weather Prediction Center](#)

[Severe geomagnetic storm impacting Earth after coronal mass ejection from the sun |](#)

[news.com.au — Australia's leading news site](#)

[Geomagnetic storm hits Earth creating northern lights, disrupting radio communications \(msn.com\)](#)

[Major geomagnetic storm lights up parts of New Zealand \(msn.com\)](#)

On Thu, Oct 12, 2023 at 11:04 PM Angus Craig Redacted under s.9(2)(a) wrote:

[Ancient superpowered solar storm that hit Earth 14,000 years ago is the 'biggest ever identified' \(msn.com\)](#)

Miyake events are believed to be "several orders of magnitude" greater than the Carrington Event, the researchers wrote. Scientists think the most recent Miyake event was around 80 times more powerful than the Carrington Event, Live Science previously reported. But the newly discovered superflare could have been twice as powerful again, researchers wrote.

I hope you saw this....backing up what i have been saying

On Mon, Jul 10, 2023 at 12:47 PM Angus Craig wrote:

Redacted under s.9(2)(a)

I know submissions have closed and I received your email the other day on the future of cash etc . But I am just forwarding this talk on RNZ the other day, on to you as it does support my case on the vulnerability of having all your eggs in a digital / electrical basket.

[Dr Craig Rodger: What to expect from Solar Maximum | RNZ](#)

regards
Angus

On Fri, Feb 17, 2023 at 12:02 AM Angus Craig wrote:

Redacted under s.9(2)(a)

The recent state of emergencies as a result of Cyclone Gabrielle which we in NZ have experienced is yet another reminder / reason to retain and strengthen the use of physical cash in society as digital infrastructure and electricity failed in these adverse conditions. .This event should have reinforced this point home.. The climate has and will always continue to change as history teaches us, so we must not put all our eggs in one basket.

[Why did New Zealand's cellphone network fail so fast? | The Spinoff](#)

[Cyclone Gabrielle: Gisborne Highway bridge a mangled wreck as residents without communication after massive destruction to lines - NZ Herald](#)

[Cyclone Gabrielle: Chorus reveals scale of East Coast fibre devastation, telcos fly in mini towers, satellite gear - NZ Herald](#)

On Sat, Jan 7, 2023 at 5:50 PM Angus Craig wrote:

Redacted under s.9(2)(a)

[Geomagnetically Induced Current Modeling in New Zealand: Extreme Storm Analysis Using Multiple Disturbance Scenarios and Industry Provided Hazard Magnitudes - Mac Manus - 2022 - Space Weather - Wiley Online Library](#)

On Sun, Dec 25, 2022 at 3:23 PM Angus Craig

Redacted under s.9(2)(a)

wrote:

going on this yet another reason why cash must remain.

[NBuzulukova_BTsurutani_2022_CorrProofs_Dec20 \(arxiv.org\)](#)

[Frontiers | Space Weather: From solar origins to risks and hazards evolving in time \(frontiersin.org\)](#)

[\[2212.11504\] Space Weather: From Solar Origins to Risks and Hazards Evolving in Time \(arxiv.org\)](#)

[Space Weather: From Solar Origins to Risks and Hazards Evolving in Time - SpaceRef](#)

On Tue, Sep 6, 2022 at 6:54 PM Angus Craig

Redacted under s.9(2)(a)

wrote:

Im sure you will have seen this in the mainstream media now.....somewhat underplayed the risks that could happen depending on the event but at least it was reported on.....reinforces the need for cash .[Scientists preparing New Zealand's defences against solar tsunami threat | Newshub](#)

On Sun, Jul 10, 2022 at 12:40 PM Angus Craig

Redacted under s.9(2)(a)

wrote:

Cash was King in Canada when there was grid down / electricity brownouts.

[Rogers outage impacts maritime businesses | CTV News](#)

[Canada Police, Banks And Consumers Hit By Major Network Outage | Barron's \(barrons.com\)](#)

[Spaceweather.com Time Machine](#)

On Mon, Feb 14, 2022 at 12:07 AM Angus Craig

Redacted under s.9(2)(a)

wrote:

<https://www.forbes.com/sites/siladityaray/2022/02/09/at-least-40-starlink-satellites-launched-by-spacex-last-week-have-been-destroyed-by-geomagnetic-storm/>

On Mon, Jan 17, 2022 at 3:44 PM Angus Craig

Redacted under s.9(2)(a)

wrote:

A timely reminder of how infrastructure is vulnerable in a changing world and how Cash is still very relevant going forward. [Tonga volcanic eruption: Looks like worst-case scenario for islands' internet cable - NZ Herald](#)

On Mon, Oct 5, 2020 at 11:07 AM Angus Craig

Redacted under s.9(2)(a)

wrote:

<http://www.imperial.ac.uk/news/204493/solar-storms-could-more-extreme-they/>

On Mon, Sep 2, 2019 at 12:30 PM Angus Craig

Redacted under s.9(2)(a)

wrote:

No worries

In case you were un aware of the Carrington event.

https://en.wikipedia.org/wiki/Solar_storm_of_1859

<https://www.nationalgeographic.com/news/2011/3/110302-solar-flares-sun-storms-earth-danger-carrington-event-science/>

On Mon, Sep 2, 2019 at 8:31 AM FutureofCash

<FutureofCash@rbnz.govt.nz> wrote:

Kia ora,

Thank you very much for taking the time to give us your views on

The Future of Cash Use - Te Whakamahinga Moni Anamata.

Your submission will be carefully considered along with all feedback received before 31 August.

Kind regards,

Future of Cash - Te Moni Anamata | Reserve Bank of New Zealand | Te Pūtea Matua

2 The Terrace, Wellington 6011 | P O Box 2498, Wellington 6140

Email: FutureOfCash@rbnz.govt.nz | www.rbnz.govt.nz

From: Angus Craig [Redacted under s.9(2)(a)]

Sent: Friday, 30 August 2019 11:51 PM

To: FutureofCash <FutureofCash@rbnz.govt.nz>

Subject: Cash

To who it may concern,

My response to The Cash issue I saw on TVNZ.

Regarding just electronic banking i would say Never put all your eggs in one basket to quote a well known saying. It was true for people in the 2011 Christchurch earthquake area who wanted to buy food and water etc who had cash when electronic payment services were all out of order....cash was actually king, and hence vital in disaster Zones and effected areas for people needing things.The other side of this is buinesses could trade and earn money if they were not badly effected.....little down time for some in buiness.

As the climate changes moving forward we could be effected by more earthquakes (NZ scientific predictions) , volcanic eruptions, flooding/tsunamis etc which will have effects on services for people.....even a very serious Carrington type event is indeed possible that could effect electronic banking and data storage, so it would be foolish to get rid of cash.

If there is a real will by the Trading Banks, government and the Reserve bank to promote to the public to use and have cash it will survive.....But does the banking industry really want it is the question and is this public exercise all this just part of the process which has already been decided?I guess time will tell.

We Still need cash in my view.

Regards

Angus

Regards

Angus

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