

**From:** [Redacted under s.9(2)(a)]  
**To:** [FutureofMoney](#)  
**Subject:** Re: Cash  
**Date:** Saturday, 11 May 2024 3:41:46 pm  
**Attachments:** [Screenshot \(3758\).png](#)  
[Screenshot \(3763\).png](#)

UPGRADED.....[G5 Conditions Observed! | NOAA / NWS Space Weather Prediction Center](#)

[Extreme space storm upgraded to most serious category, Transpower issues NZ 'grid emergency' notice again - NZ Herald](#)

THIS IS A CONTINUATION ON MY THREAD TO MY PREVIOUS SUBMISSION ON THE FUTURE OF CASH....i WILL BE PUTTING IN ONE ON YOUR DIGITAL CASH submissions which you just listed a few days ago.

On Sat, May 11, 2024 at 1:29 AM Angus Craig [Redacted under s.9(2)(a)] wrote:

The screenshot shows the SpaceWeather.com website. The header includes navigation links like 'AURORA ALERTS', 'SUBMIT YOUR PHOTOS', 'CONTACT US', 'SUBSCRIBE', 'FLYBYS', and 'EARTH TO SKY'. The main content area is divided into several sections:

- Current Conditions:** Displays solar wind speed (409.6 km/sec), density (1.94 protons/cm<sup>3</sup>), and X-ray solar flares (X3 0654 UT May10).
- Daily Sun:** A circular image of the sun with sunspot numbers labeled, including 3672, 3670, 3667, 3663, 3666, and 3664.
- Sunspot number:** 170, updated 10 May 2024.
- Spotless Days:** A table showing the number of spotless days for various years, ranging from 0 days in 2024 to 268 days in 2008.
- Thermosphere Climate Index:** Shows a warm index of 21.38x10<sup>10</sup> W.
- The Radio Sun:** A section for radio solar activity.
- What's up in space:** A section titled 'This is an AI Free Zone!' discussing Carrington-class sunspots and CMEs.
- Archives:** A dropdown menu for selecting dates to view past content.
- Advertisements:** Various ads for 'Enchanting Morocco', 'Aurora Adventures in Abisko', 'Northern Lights Company', 'Remote Astrophotography', 'Young's Photo Galleries', 'Averted Imagination', 'No-Verification Casino', and 'MDT'.

[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 \(msn.com\)](#)

The screenshot shows the NOAA Space Weather Prediction Center (SWPC) website. The header includes the NOAA logo, the text "SPACE WEATHER PREDICTION CENTER NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION", and the date "Friday, May 10, 2024 13:17:11 UTC". A navigation bar contains links: HOME, ABOUT SPACE WEATHER, PRODUCTS AND DATA, DASHBOARDS, MEDIA AND RESOURCES, SUBSCRIBE, ANNUAL MEETING, FEEDBACK. Below the navigation bar is a search bar and a section titled "CURRENT SPACE WEATHER CONDITIONS on NOAA Scales" with three green boxes labeled R, S, and G. The main content area features a large banner titled "Active Space Weather Conditions Through Weekend" with the subtitle "WHAT: Large Sunspot Groups and Flares Lead to First G4 Watch Since 2005". The banner includes a sun image with a yellow circle highlighting a sunspot group and a list of bullet points: "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." Below the banner is a section titled "SWPC ISSUES ITS FIRST G4 WATCH SINCE 2005" with the text "published: Thursday, May 09, 2024 20:38 UTC" and a paragraph: "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." The footer includes the USA.gov logo, the text "National Oceanic and Atmospheric Administration National Weather Service National Centers for Environmental Prediction Space Weather Prediction Center 325 Broadway, Boulder CO 80305", and a disclaimer: "Disclaimer Privacy Policy About NOAA's National Weather Service Careers in Weather".

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

On Mon, Mar 25, 2024 at 4:46 PM Angus Craig wrote:

Redacted under s.9(2)(a)

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 affected ....this 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](https://www.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 wrote:

Redacted under s.9(2)(a)

[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

Redacted under s.9(2)(a)

wrote:

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

Redacted under s.9(2)(a)

wrote:

[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://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](mailto: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](mailto:FutureOfCash@rbnz.govt.nz) | [www.rbnz.govt.nz](http://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](mailto: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  
businesses could trade and earn money if they were not badly  
effected.....little down time for some in buisness.

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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